

CHAMELEON WRAPPING AND LAMINATION LTD. TEST REPORT

SCOPE OF WORK

NFPA 285, TEST ON EXTERIOR NON-LOAD BEARING WALL ASSEMBLIES UTILIZING PVC CLADDING

REPORT NUMBER

104549690SAT-002_REV.1

TEST DATE(S)

01/14/21

ISSUE DATE **[REVISED DATE]**

01/19/21 05/06/21

RECORD RETENTION DATE

01/14/25

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TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002_REV.1

Date: 01/19/21

REPORT ISSUED TO

CHAMELEON WRAPPING AND LAMINATION LTD

10235-184 Street

Edmonton, AB T5S 2J4

CANADA

SECTION 1

SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by CHAMELEON WRAPPING AND LAMINATION LTD., 10235-184 Street, Edmonton, AB T5S 2J4, CANADA to perform testing in accordance with **NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components**, on their PVC Cladding. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in Elmendorf, Texas, USA.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.


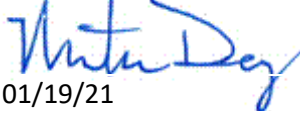
Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

The assembly described and tested in this report **met** the Conditions of Acceptance of **NFPA 285-2019**.

For INTERTEK B&C:

COMPLETED BY:	Abel de Hoyos	REVIEWED BY:	Mike Dey
TITLE:	Senior Project Manager – Fire Resistance	TITLE:	Senior Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	01/15/21	DATE:	01/19/21

AAA:bbb

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SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, 2019 Edition

SECTION 4

MATERIAL SOURCE/INSTALLATION

Samples were independently selected by a 3rd Party engineer for Building Science Engineering Ltd., on 12/01/20 at the Chameleon Wrapping and Laminating Ltd.'s manufacturing facility located at 10235 – 184 ST. NW, Edmonton, Alberta CANADA. The samples were received at the Evaluation Center on 12/29/20 and were assigned Intertek Sample ID No. SAT2012291334-001. The samples contained the mark of the inspector.

The subject test specimens are traceable samples selected from the manufacturer's facility. Intertek did not select the specimens and has not verified their composition, manufacturing techniques and quality assurance procedures.

SECTION 5

EQUIPMENT

Description	Serial No.	Calibration Due Date
Stopwatch	160778695	08/12/21
DAQ Unit	99LE006	04/02/21
Thermo/Hygrometer	10361069	07/23/21

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
David Smith	Element (MS Teams)
Amber Gunderson	ChamClad (MS Teams)
Tony Crimi	A.C. Consulting Solutions (MS Teams)
Hussein Elfeki	Intertek (Canada) (MS Teams)
Emmanuel Ogoe	Intertek B&C
Abel de Hoyos	Intertek B&C

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SECTION 7

TEST PROCEDURE

The wall assembly was instrumented with thermocouples (TCs) in accordance with Figures 6.1(a) and 6.1(b); Detail G, of NFPA 285-2019 test method. 18 GA, Type K TCs were used in the burn room and 24 GA, Type K were used on the exterior façade and air space. The window burner was positioned in the center of the opening and 4 in. off the exterior face of the wall assembly. Testing was performed on 01/14/2021 in accordance with NFPA 285-2019 test method. Ambient conditions were 57.3°F and 47.5% relative humidity. Video recording, digital photographs, visual observations, and data collection were performed prior, during, and after testing was completed. Temperature data was recorded every 15 seconds. The test was initiated at 09:40 a.m. with the burners on for 30 minutes. All observations are recorded in the table located in Section 8.

The apparatus is under calibrated conditions when the time average temperatures and the time average heat flux readings obtained for a calibration wall match the requirements of Table 7.1.11 of NFPA 285-2019.

SECTION 8

TEST SPECIMEN DESCRIPTION

The CHAMELEON WRAPPING AND LAMINATION LTD., PVC Cladding System consisted of a base wall (20 GA metal studs and track (16 in. oc) R-11 Batt Insulation and 5/8 in. exterior sheathing), WRB, 1-1/2 in. 20 GA hat-channel, PVC exterior panels and aluminum trim extrusions.

Base Wall – 20 GA. Metal studs and track spaced 16 in. oc, with R-11 Batt insulation in stud cavities. Stud and track were secured using 1/2 in. long #8 self-tapping screws.

Exterior Sheathing – Georgia Pacific 4 ft. by 10 ft. by 5/8 in. thick, ASTM C1177 Compliant, DensGlass Gold Exterior Sheathing, installed with the long dimension perpendicular to the metal studs. Exterior sheathing was secured using 1-1/4 in. long #8 self-tapping screws.

Air and Moisture Barrier – Dupont™ Tyvek® Commercial Wrap® - 5 ft. wide rolls. Air and Moisture barrier was secured using staples.

Hat Channel – 20 GA, 1-1/2 in. installed vertically. Hat Channel was secured using 1-1/4 in. long #8 self-tapping screws at 12 in. oc, on only one side of the hat channel.

Panels – Chameleon ChamClad 6 in wide PVC panels, installed horizontally and secured every 16-in. Panels were secured with 3/4 in. long, #8 pan head, self-tapping screws.

The assembly was completed on 01/13/21.

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SECTION 9

TEST OBSERVATIONS

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Test started at 09:40 a.m.
01:00	Soot beginning to coat panels directly above window
01:44	Flames coming out of burn room
02:00	Window flashing beginning to deform
03:30	Buckling of flashing on header
05:00	Window burner on
06:50	Charring of panels directly above window
07:40	Panel at approximately 2 ft. above window melts apart
09:15	Melted section falling
09:40	Flare up on panels
11:00	Flaming debris falling
11:30	Panel sections directly above window opening have melted all the way up wall
15:00	Lateral melting only to window opening edges
18:00	No visible changes
20:00	Sample stable no changes
25:00	Small sections continue to fall
30:00	End of test, small area above window continues to burn

SECOND FLOOR OBSERVATIONS

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Test started at 09: 40 a.m.
05:00	Window burner lit
08:00	Light smoke, room visibility at 90%
11:30	Smoke coming from middle and right side at floor line
13:30	Smoke increasing, room visibility at 80%
17:00	Smoke decreasing, room visibility at 90%
23:00	No visible changes
28:00	No changes, smoke at a minimum
30:15	Burner off, end of test

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SECTION 10

TEST RESULTS

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Flames did not reach 10 ft. above the window opening header.	Flames did not reach 10 ft. above the window opening header.	PASS
Flames did not reach a lateral distance of 5 ft. from the vertical centerline.	Flames did not reach a lateral distance of 5 ft. from the vertical centerline.	PASS
Flames did not propagate beyond the limits of the first story test room.	Flames did not propagate beyond the limits of the first story test room.	PASS
No visible flaming in the second story test room	No visible flaming in the second story test room.	PASS
TC's 11 and 14-17 (1000°F limit)	TC's 11 and 14-17 did not exceed their 1000°F limit.	PASS
TC's 18-19, 28, and 31-40 (1000°F limit)	TC's 18-19, 28, and 31-40 did not exceed their 1000°F Limit.	PASS
TC's 49-54 (500°F above ambient)	TC's 49-54 did not exceed 500°F above their ambient temperatures.	PASS

The assembly described and tested in this report met the Conditions of Acceptance of NFPA 285-2019

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SECTION 11

PHOTOGRAPHS



Photo No. 1

Rear-View of Wall, Prior to Insulation and Gypsum Installation



Photo No. 2

Window Trim Installation Sans Window Flashing

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Photo No. 3
Finished View of PVC Cladding Installation



Photo No. 4
View of Wall Shortly after Start of Test

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Photo No. 5
View During Test



Photo No. 6
View During Test

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Photo No. 7
View Prior to End of Test



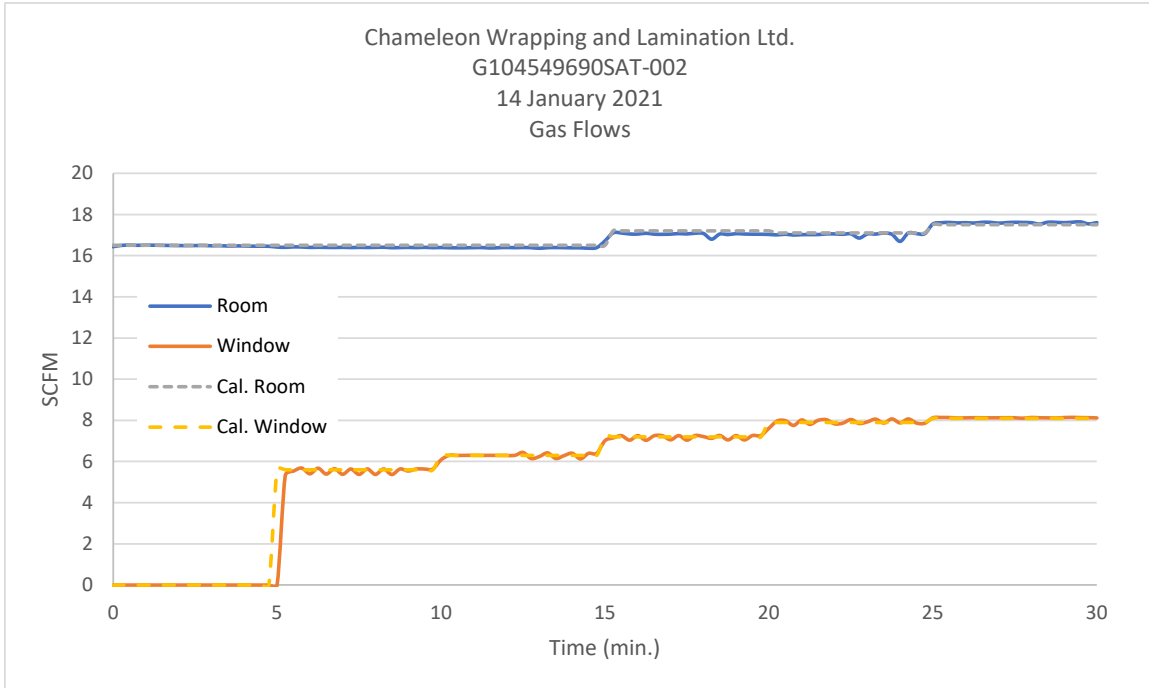
Photo No. 8
Post Test View

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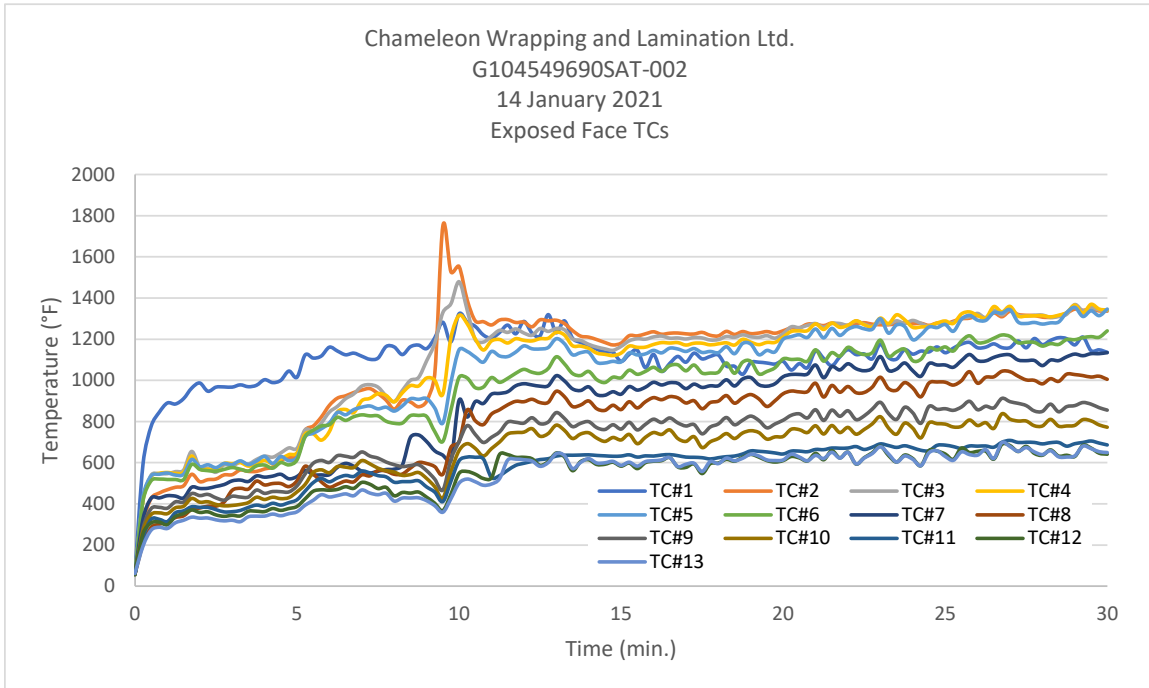
SECTION 12 GRAPHS



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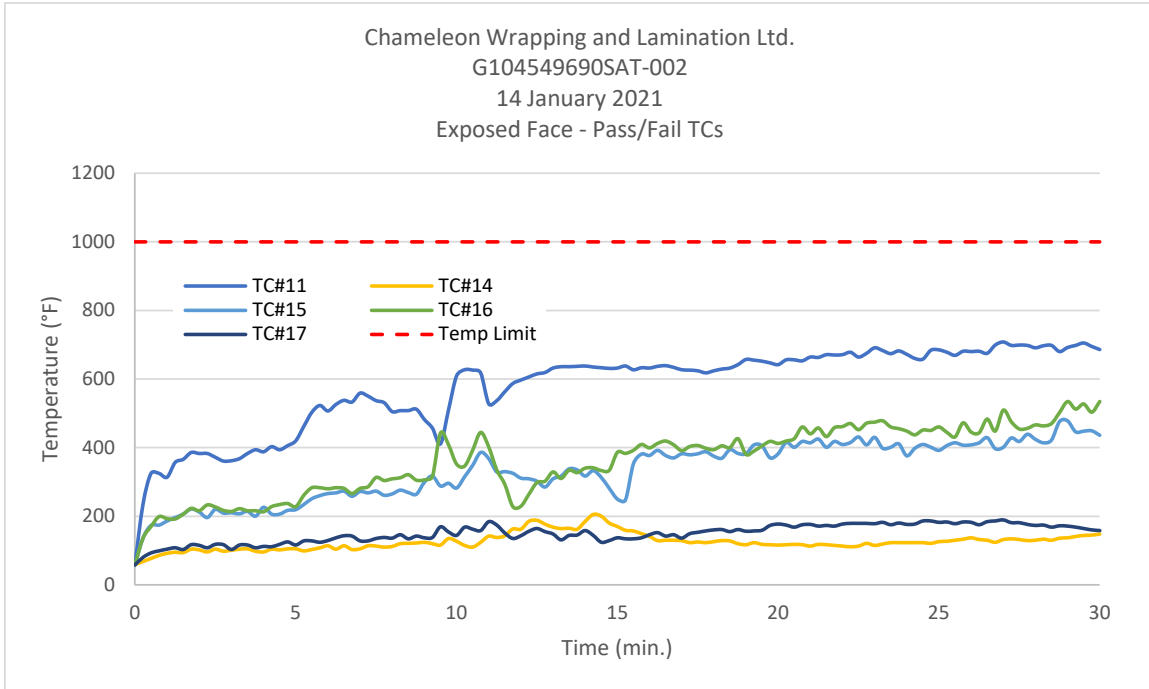
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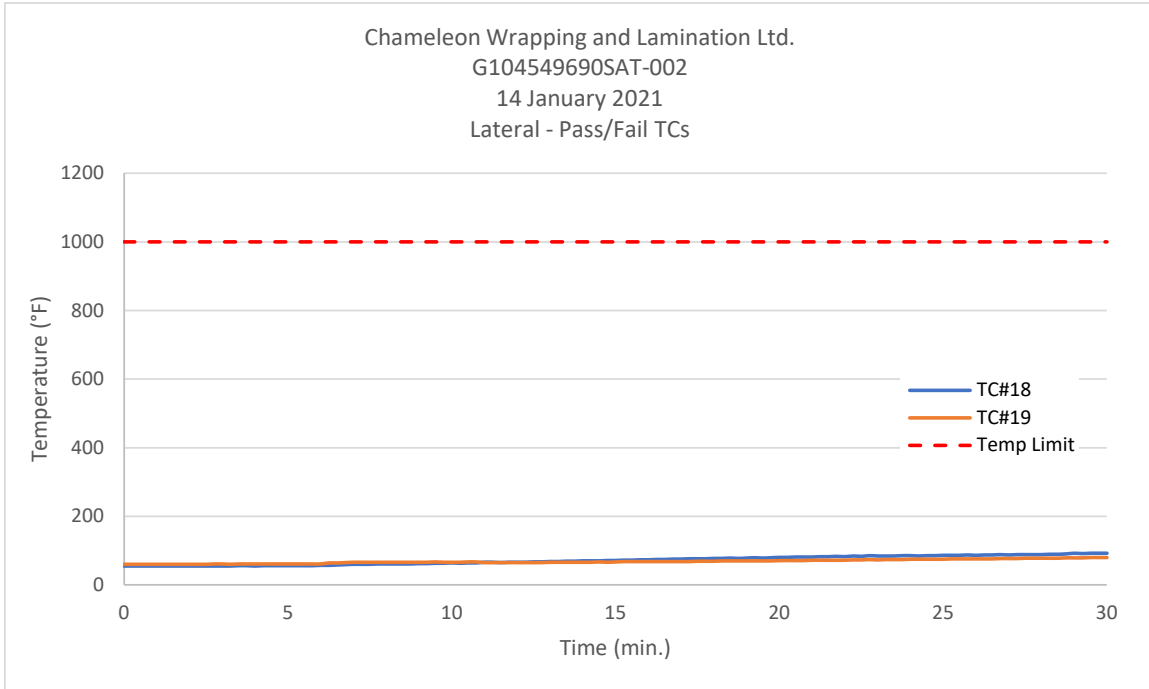
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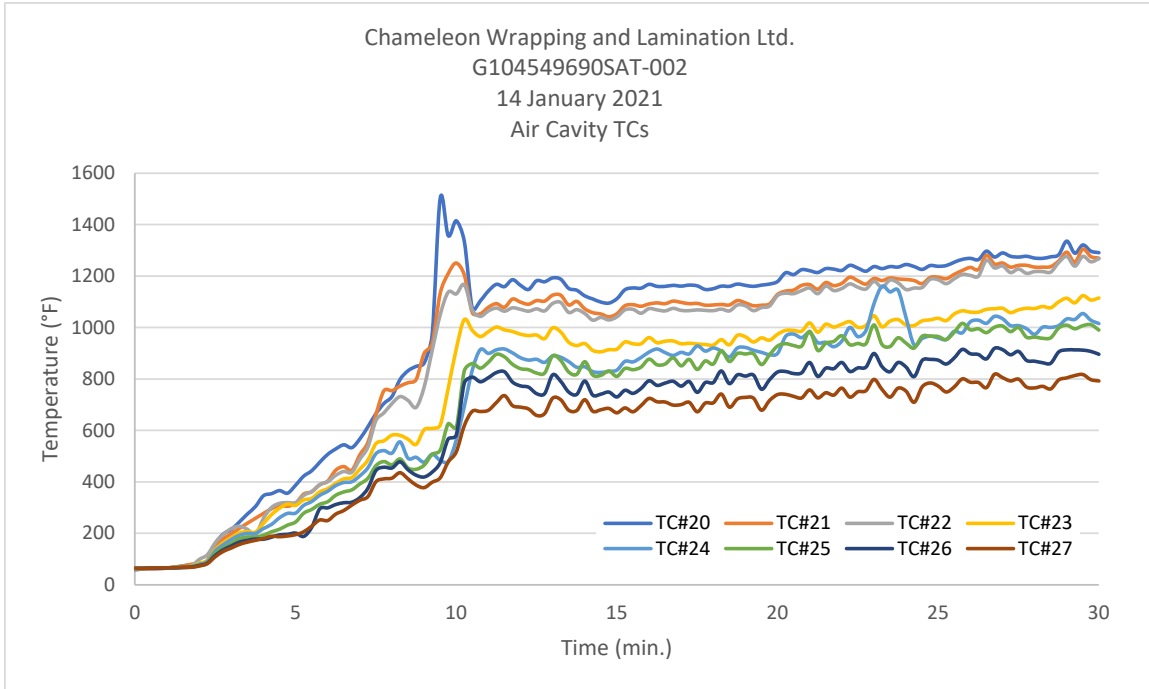
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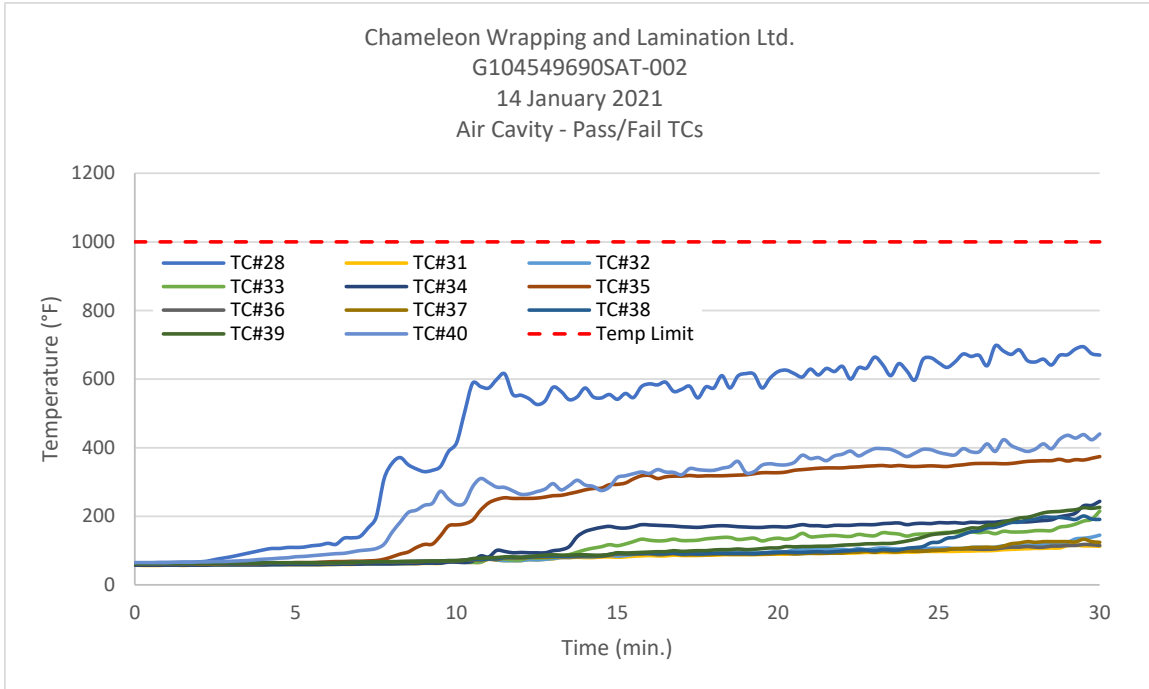
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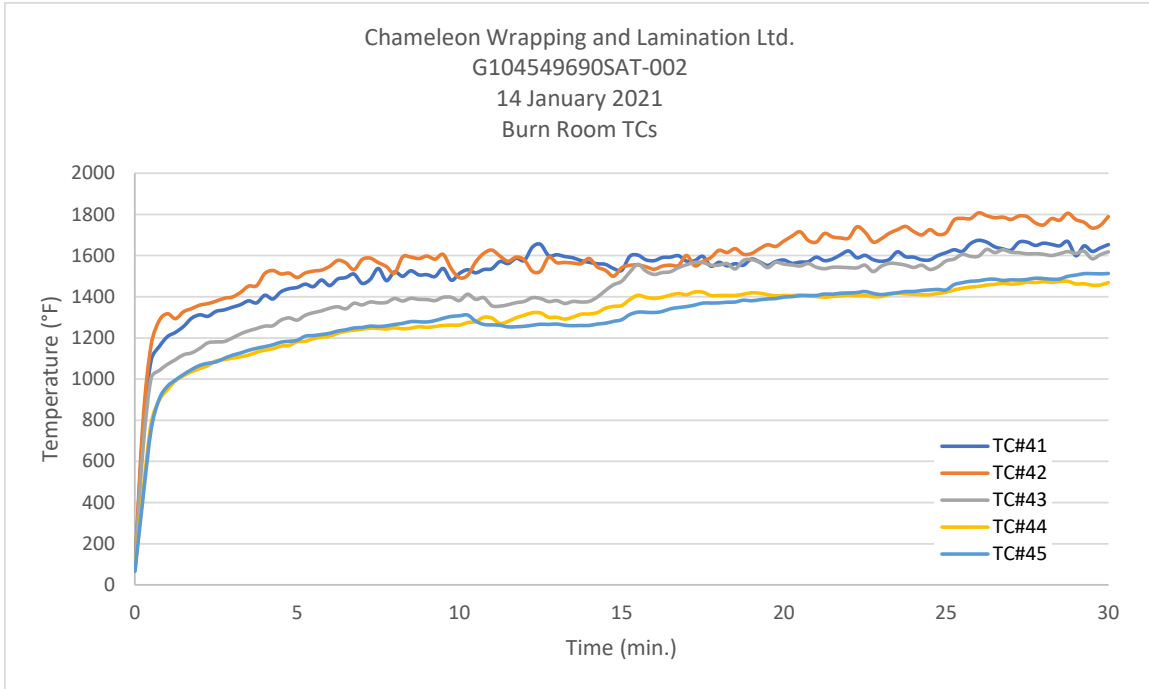
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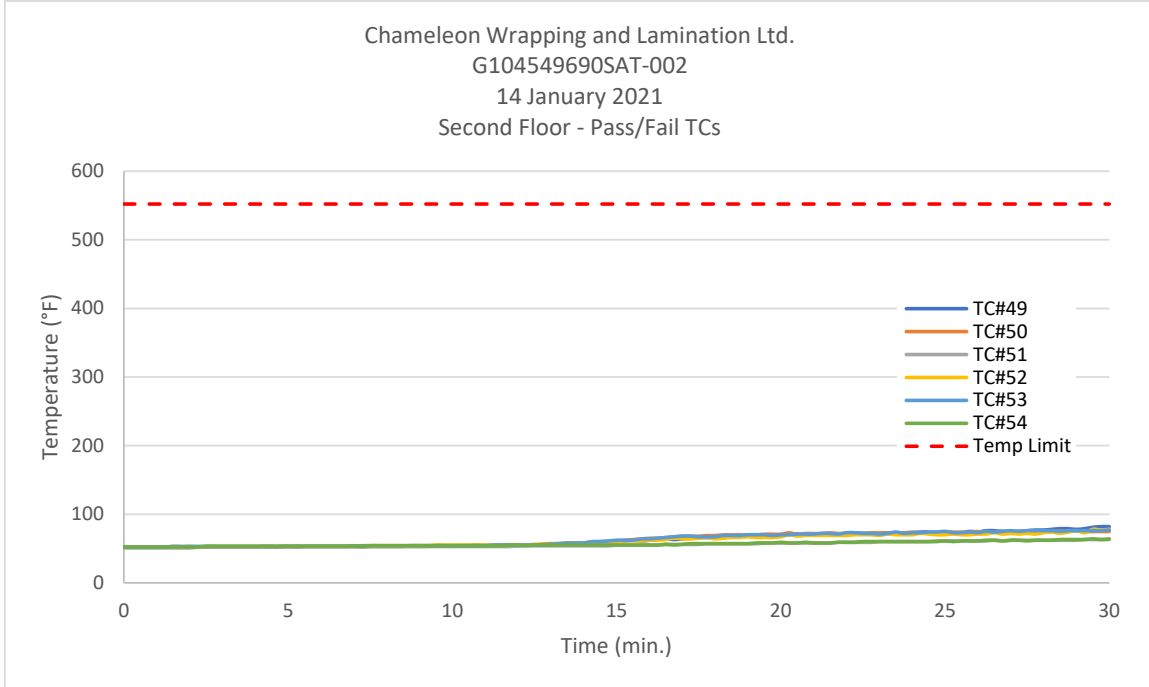
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SECTION 13 NUMERICAL DATA

G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail												
	TC#1 (°F)	TC#2 (°F)	TC#3 (°F)	TC#4 (°F)	TC#5 (°F)	TC#6 (°F)	TC#7 (°F)	TC#8 (°F)	TC#9 (°F)	TC#10 (°F)	TC#11 (°F)	TC#12 (°F)	TC#13 (°F)
0	60	56	56	55	55	55	57	60	57	58	60	59	62
0.25	595	310	421	420	437	416	328	205	282	269	235	256	195
0.5	777	427	540	532	536	512	428	286	377	348	325	307	272
0.75	845	453	547	548	544	520	429	301	383	356	325	311	286
1	890	469	547	552	550	518	440	313	379	352	314	298	280
1.25	885	481	557	548	540	518	438	334	410	381	357	338	308
1.5	911	488	564	554	544	517	429	342	409	388	366	352	320
1.75	962	544	655	632	616	591	481	373	450	426	386	370	335
2	987	508	577	570	581	567	475	380	440	408	383	358	330
2.25	947	518	573	568	590	561	476	389	446	410	383	361	331
2.5	967	521	554	567	576	558	485	389	429	397	372	346	322
2.75	968	541	590	596	596	567	494	409	418	390	361	339	317
3	967	542	584	595	591	576	512	466	437	392	362	344	320
3.25	978	565	603	600	609	568	516	476	433	397	368	341	313
3.5	969	558	594	583	591	559	509	472	433	406	383	364	337
3.75	976	558	616	594	608	584	536	511	467	432	394	364	340
4	1003	570	632	611	631	588	530	492	451	421	388	362	340
4.25	989	579	627	595	596	573	535	499	460	432	403	377	350
4.5	1000	611	648	617	630	600	544	499	459	425	394	368	342
4.75	1045	627	672	639	610	589	522	484	458	430	406	377	352
5	1015	632	670	647	626	613	533	512	487	458	420	387	361
5.25	1123	757	760	739	726	726	563	583	545	494	462	424	393
5.5	1108	778	753	740	743	757	542	547	597	552	503	461	417
5.75	1118	822	793	709	765	778	541	507	611	565	523	468	444
6	1161	879	846	751	793	784	542	481	601	551	507	466	433
6.25	1142	914	874	846	845	820	578	496	634	581	526	470	440
6.5	1124	925	911	858	833	805	597	511	631	578	538	483	448
6.75	1132	941	934	843	858	823	583	507	626	576	533	475	439
7	1117	953	972	901	870	832	559	541	652	610	559	504	467
7.25	1102	960	979	912	876	827	550	536	632	594	550	495	452
7.5	1108	936	967	935	862	827	559	562	622	573	537	474	444
7.75	1164	904	925	926	870	801	567	559	603	561	531	480	451
8	1162	860	897	895	851	791	569	544	590	554	505	439	413
8.25	1125	904	951	939	876	792	589	545	581	538	508	455	428
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8.75	1171	872	1014	972	908	829	735	601	590	552	512	457	429
9	1154	899	1095	1011	912	824	703	596	561	523	482	432	415
9.25	1206	1029	1180	1000	866	751	658	581	520	483	457	403	391
9.5	1282	1749	1329	933	793	703	637	544	467	428	411	367	359
9.75	1187	1527	1372	1207	991	855	611	675	615	556	510	447	425
10	1323	1553	1479	1315	1149	1014	903	702	702	658	609	548	500
10.25	1283	1391	1342	1275	1141	1011	822	856	780	692	627	557	520
10.5	1262	1289	1197	1201	1114	964	897	804	737	669	626	544	507
10.75	1220	1285	1186	1147	1089	967	888	785	698	632	618	523	490
11	1205	1269	1214	1191	1141	1013	933	836	723	668	528	526	496



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G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail												
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11.25	1232	1293	1243	1198	1119	990	937	857	749	700	537	640	522
11.5	1268	1295	1233	1181	1116	1009	945	881	797	739	563	639	612
11.75	1226	1281	1250	1202	1138	1034	974	898	796	746	587	626	617
12	1286	1283	1230	1194	1168	1053	984	896	792	748	597	626	614
12.25	1230	1260	1219	1191	1154	1039	978	908	818	765	606	619	608
12.5	1216	1294	1252	1202	1153	1034	972	892	789	728	615	587	582
12.75	1319	1289	1238	1204	1160	1057	974	893	797	741	619	605	600
13	1231	1292	1252	1233	1203	1114	1023	947	843	782	632	647	644
13.25	1289	1276	1246	1220	1179	1080	998	921	815	757	636	628	634
13.5	1205	1242	1201	1168	1125	1033	959	873	775	717	636	561	571
13.75	1184	1215	1194	1166	1135	1023	951	880	791	739	637	605	601
14	1170	1210	1175	1155	1137	1043	969	900	799	745	638	614	619
14.25	1151	1198	1162	1132	1088	1003	931	862	770	719	635	591	598
14.5	1137	1184	1153	1126	1085	989	928	854	761	703	633	592	599
14.75	1136	1172	1146	1120	1093	1015	945	879	784	722	631	602	606
15	1092	1181	1165	1132	1090	1012	933	858	763	710	632	583	587
15.25	1126	1217	1192	1166	1134	1049	970	896	796	737	638	598	602
15.5	1146	1216	1202	1160	1124	1029	953	866	759	692	627	571	583
15.75	1061	1226	1200	1161	1129	1043	967	896	786	723	633	600	605
16	1126	1236	1211	1174	1146	1063	991	916	811	746	632	607	609
16.25	1044	1224	1215	1183	1134	1043	978	906	795	737	637	610	613
16.5	1082	1229	1205	1181	1157	1071	989	921	817	759	639	625	625
16.75	1116	1230	1206	1183	1153	1075	986	915	793	717	634	579	581
17	1088	1226	1201	1171	1141	1046	960	890	778	703	627	577	592
17.25	1132	1225	1208	1180	1155	1074	982	901	785	726	626	594	597
17.5	1104	1233	1206	1180	1136	1035	966	862	740	673	624	547	557
17.75	1116	1219	1196	1172	1141	1035	974	892	773	701	618	595	605
18	1123	1216	1198	1177	1135	1039	974	899	788	717	624	598	595
18.25	1069	1238	1213	1182	1164	1084	1003	926	819	741	629	616	622
18.5	1068	1223	1209	1171	1130	1034	973	889	784	717	632	607	609
18.75	1029	1237	1221	1199	1180	1088	1007	915	806	744	642	626	621
19	1086	1227	1212	1185	1177	1092	1014	931	826	755	657	640	641
19.25	1088	1230	1209	1173	1125	1031	979	910	805	746	655	627	632
19.5	1084	1237	1217	1184	1146	1043	972	873	769	714	652	610	613
19.75	1079	1229	1205	1184	1139	1061	984	901	788	725	647	603	610
20	1092	1241	1227	1210	1200	1104	1018	935	806	727	642	610	613
20.25	1050	1255	1260	1237	1213	1101	1029	948	830	762	656	630	641
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21	1143	1273	1276	1274	1250	1148	1075	986	857	779	664	645	635
21.25	1106	1266	1258	1247	1207	1093	1013	919	805	739	663	614	620
21.5	1071	1278	1276	1278	1253	1134	1067	975	855	780	671	658	650
21.75	1114	1270	1276	1257	1219	1117	1051	942	825	746	670	623	622
22	1149	1267	1268	1267	1249	1160	1081	970	852	771	671	651	650



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14-Jan-2021

Time (min)	Pass/ Fail												
	TC#1 (°F)	TC#2 (°F)	TC#3 (°F)	TC#4 (°F)	TC#5 (°F)	TC#6 (°F)	TC#7 (°F)	TC#8 (°F)	TC#9 (°F)	TC#10 (°F)	TC#11 (°F)	TC#12 (°F)	TC#13 (°F)
22.25	1125	1276	1288	1289	1262	1138	1057	940	809	738	678	593	594
22.5	1128	1280	1273	1270	1251	1125	1047	941	827	761	664	624	622
22.75	1104	1273	1263	1259	1249	1134	1059	967	860	788	675	648	644
23	1176	1270	1283	1302	1300	1195	1116	1015	893	823	691	680	677
23.25	1111	1270	1273	1275	1230	1117	1049	960	839	768	683	635	642
23.5	1103	1275	1289	1318	1270	1138	1055	952	810	738	674	603	603
23.75	1149	1280	1277	1294	1262	1151	1085	989	869	792	682	637	632
24	1127	1275	1291	1257	1198	1095	1047	963	842	767	672	620	616
24.25	1142	1277	1277	1259	1222	1102	1020	920	791	720	660	585	585
24.5	1138	1267	1262	1263	1260	1157	1082	987	873	793	658	659	648
24.75	1162	1278	1277	1278	1257	1147	1075	992	859	789	684	656	657
25	1134	1274	1275	1288	1272	1162	1075	991	862	787	685	642	630
25.25	1156	1287	1282	1276	1239	1142	1064	977	854	773	678	616	611
25.5	1176	1299	1302	1322	1297	1190	1096	998	870	776	669	671	652
25.75	1184	1302	1309	1332	1316	1216	1126	1042	898	807	681	649	639
26	1158	1314	1325	1315	1293	1183	1096	986	857	780	680	655	636
26.25	1161	1304	1304	1302	1292	1186	1095	1015	874	794	681	656	663
26.5	1177	1328	1341	1358	1330	1204	1112	1017	866	766	675	617	620
26.75	1159	1309	1318	1332	1327	1220	1123	1044	912	837	699	689	697
27	1159	1336	1347	1359	1344	1213	1124	1042	896	811	708	683	678
27.25	1191	1320	1316	1312	1284	1182	1099	1020	888	802	698	654	655
27.5	1158	1316	1312	1312	1277	1185	1096	1002	877	802	699	679	673
27.75	1203	1315	1316	1313	1282	1184	1097	1000	851	779	698	645	652
28	1173	1307	1317	1314	1274	1166	1072	983	849	778	691	636	639
28.25	1194	1306	1305	1308	1280	1178	1099	1008	884	810	697	662	658
28.5	1207	1313	1310	1316	1284	1174	1096	995	847	777	698	632	628
28.75	1202	1327	1321	1329	1330	1198	1115	1030	872	778	680	636	627
29	1172	1346	1368	1365	1355	1197	1128	1028	877	781	692	630	633
29.25	1210	1340	1338	1326	1311	1207	1120	1023	892	809	698	684	680
29.5	1144	1347	1354	1369	1339	1212	1130	1016	884	803	705	671	668
29.75	1148	1337	1342	1346	1315	1209	1130	1020	867	783	695	646	653
30	1136	1336	1339	1341	1347	1240	1135	1005	855	772	686	641	649
Max Temp												708	
Max Allw												1000	

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Time (min)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
	TC#14 (°F)	TC#15 (°F)	TC#16 (°F)	TC#17 (°F)	TC#18 (°F)	TC#19 (°F)	TC#20 (°F)	TC#21 (°F)	TC#22 (°F)	TC#23 (°F)	TC#24 (°F)	TC#25 (°F)	TC#26 (°F)	TC#27 (°F)
0	59	57	59	58	55	60	58	60	61	63	63	64	64	64
0.25	68	136	136	80	55	60	61	62	63	64	64	64	64	64
0.5	77	173	170	93	55	60	62	63	64	65	65	65	65	65
0.75	86	174	199	99	55	60	63	64	65	65	65	65	65	66
1	92	186	193	104	55	60	65	65	66	66	66	66	66	66
1.25	95	196	192	108	55	60	69	69	67	68	67	67	66	67
1.5	94	206	206	103	55	60	73	74	69	70	69	68	67	68
1.75	104	221	223	117	55	60	78	80	73	72	71	70	69	68
2	102	212	216	115	55	60	83	81	99	84	80	77	75	73
2.25	96	196	233	108	55	60	94	89	117	95	91	86	84	82
2.5	104	220	227	118	55	60	160	144	164	137	132	122	114	109
2.75	98	209	217	117	55	61	197	179	196	164	156	143	136	130
3	101	210	214	103	55	61	215	199	219	184	176	160	151	143
3.25	104	207	222	116	55	60	244	220	228	202	193	179	166	157
3.5	105	214	216	116	56	61	275	240	216	207	200	186	173	166
3.75	98	200	216	108	56	61	304	259	194	205	200	185	178	173
4	96	226	213	112	55	61	346	278	259	239	219	193	177	180
4.25	104	206	228	111	56	61	354	296	301	273	235	206	185	189
4.5	102	206	234	118	56	61	366	309	317	298	261	216	194	187
4.75	105	217	237	125	56	61	356	306	320	314	278	232	196	190
5	105	219	228	116	56	61	387	317	320	309	279	244	201	195
5.25	99	234	261	128	56	61	422	353	348	330	309	278	188	206
5.5	103	251	283	128	56	61	443	362	363	336	324	293	223	228
5.75	108	260	283	124	56	61	476	389	390	361	348	313	295	252
6	114	266	280	129	57	61	507	404	401	374	364	323	299	250
6.25	104	268	283	137	57	64	528	446	426	395	386	348	312	275
6.5	114	273	281	143	58	64	544	460	441	412	398	361	319	289
6.75	103	258	266	142	59	65	533	446	438	417	401	369	321	310
7	105	272	281	128	60	66	567	506	489	450	424	392	339	329
7.25	114	268	286	128	60	66	614	554	536	485	455	414	375	343
7.5	113	273	313	135	60	66	665	662	639	549	510	463	444	401
7.75	110	261	304	138	61	66	705	755	669	560	522	479	457	412
8	112	265	309	136	61	66	732	755	705	582	512	466	454	415
8.25	120	276	312	146	61	66	798	773	732	581	556	489	478	436
8.5	121	269	321	134	61	66	832	786	717	566	492	454	447	412
8.75	122	264	305	142	61	66	849	798	690	546	496	449	426	388
9	124	299	306	137	62	66	862	900	769	603	477	465	419	378
9.25	120	317	316	138	62	66	973	939	911	608	508	507	438	399
9.5	116	288	442	169	63	67	1502	1133	1050	621	484	523	475	416
9.75	135	296	408	154	63	66	1357	1210	1138	764	480	626	567	478
10	127	282	352	144	64	66	1415	1251	1131	917	563	612	582	517
10.25	115	315	346	168	63	66	1335	1205	1167	1031	694	831	784	619
10.5	110	348	392	162	64	67	1074	1058	1068	989	836	860	807	675
10.75	124	386	444	158	64	67	1104	1054	1044	965	915	842	789	674
11	142	368	402	184	66	65	1142	1079	1065	984	900	865	805	679

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Time (min)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	TC#14 (°F)	TC#15 (°F)	TC#16 (°F)	TC#17 (°F)	TC#18 (°F)	TC#19 (°F)	TC#20 (°F)	TC#21 (°F)	TC#22 (°F)	TC#23 (°F)	TC#24 (°F)	TC#25 (°F)	TC#26 (°F)	TC#27 (°F)
	11.25							138	329	335	174	66	65	1168	1093	1076	1002	914	896	825
11.5							143	330	293	151	65	65	1159	1079	1064	991	917	886	828	736
11.75							163	325	228	135	66	65	1186	1111	1077	985	902	857	788	697
12							162	311	229	143	66	65	1164	1099	1071	974	883	840	773	691
12.25							185	309	264	156	66	65	1148	1091	1064	969	874	836	768	684
12.5							188	302	298	164	67	65	1182	1105	1073	971	877	823	743	659
12.75							177	285	302	155	67	65	1178	1103	1065	957	865	823	743	666
13							168	309	329	148	68	66	1193	1126	1094	999	890	890	816	726
13.25							164	317	310	131	68	66	1188	1126	1098	983	885	872	791	720
13.5							165	338	334	144	69	66	1152	1088	1059	943	868	827	749	679
13.75							162	335	327	145	69	66	1145	1102	1070	930	846	818	740	678
14							185	317	340	158	70	66	1123	1073	1055	938	848	867	792	720
14.25							205	333	341	144	70	66	1111	1058	1029	911	829	815	737	675
14.5							200	313	333	124	70	67	1099	1053	1040	906	826	814	741	681
14.75							180	281	334	129	71	66	1095	1042	1030	914	830	831	749	686
15							170	250	386	137	71	67	1112	1054	1042	916	835	810	730	669
15.25							159	247	383	134	72	68	1147	1085	1069	944	869	841	756	688
15.5							157	353	392	134	72	68	1154	1089	1071	937	867	836	744	673
15.75							149	381	409	137	73	68	1153	1083	1056	937	884	846	763	697
16							141	377	399	146	73	68	1168	1092	1074	961	905	877	793	725
16.25							129	392	412	152	74	68	1160	1096	1069	941	917	855	775	712
16.5							130	377	419	142	74	68	1160	1093	1065	947	903	858	784	711
16.75							130	370	408	146	75	68	1164	1103	1075	948	892	882	791	699
17							129	382	391	136	75	68	1161	1098	1067	937	904	851	772	701
17.25							123	379	403	149	76	68	1165	1093	1066	939	898	876	790	710
17.5							125	382	406	153	76	69	1162	1094	1069	936	929	837	748	673
17.75							123	388	398	157	76	69	1148	1087	1067	934	909	870	786	707
18							126	375	394	160	77	69	1151	1088	1066	932	921	858	786	708
18.25							129	369	405	161	77	70	1161	1090	1072	953	909	910	831	742
18.5							128	394	400	155	78	70	1160	1088	1065	933	886	868	782	691
18.75							120	383	426	161	77	70	1169	1105	1088	970	921	899	816	723
19							117	382	380	156	78	70	1164	1096	1085	964	923	897	811	729
19.25							123	408	390	157	79	70	1160	1085	1066	944	912	898	815	726
19.5							118	405	405	159	78	70	1165	1087	1078	960	904	856	760	679
19.75							117	370	418	173	79	70	1169	1092	1084	951	895	894	797	717
20							116	382	412	177	80	71	1179	1129	1125	974	900	928	827	740
20.25							117	415	419	174	80	71	1213	1142	1134	989	966	937	829	741
20.5							118	401	426	168	81	71	1206	1146	1132	989	975	930	821	733
20.75							117	418	460	175	81	71	1225	1164	1144	986	961	928	824	727
21							113	414	440	176	81	72	1221	1167	1154	1018	981	985	864	758
21.25							118	425	457	171	82	72	1214	1149	1132	982	942	911	810	727
21.5							117	401	432	173	82	72	1229	1175	1162	1013	943	939	842	747
21.75							115	418	458	171	83	72	1227	1163	1144	1002	926	946	840	738
22							113	409	461	177	82	72	1222	1172	1152	1013	948	968	864	765

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Time (min)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	TC#14	TC#15	TC#16	TC#17	TC#18	TC#19	TC#20	TC#21	TC#22	TC#23	TC#24	TC#25	TC#26	TC#27		
	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	
22.25	111	415	470	179	84	73	1242	1196	1170	1023	1001	933	829	730								
22.5	113	431	452	179	83	73	1231	1182	1157	1001	965	938	843	751								
22.75	121	408	471	179	85	74	1219	1169	1150	1008	989	937	846	755								
23	115	430	474	178	84	73	1237	1191	1180	1046	1093	1010	899	799								
23.25	119	398	478	182	84	74	1229	1183	1157	1003	1161	934	848	760								
23.5	123	401	460	175	84	74	1237	1193	1185	1025	1139	926	828	730								
23.75	123	411	455	180	85	74	1235	1189	1174	1031	1146	960	864	765								
24	123	376	448	176	85	75	1245	1187	1148	1010	1038	939	846	753								
24.25	123	398	437	177	84	75	1237	1183	1154	1008	933	920	809	710								
24.5	123	409	451	186	85	75	1226	1171	1156	1026	958	966	872	770								
24.75	121	401	450	186	85	75	1241	1195	1188	1030	967	966	876	785								
25	126	392	460	182	86	75	1238	1196	1186	1036	960	965	873	773								
25.25	127	406	444	183	86	76	1241	1190	1171	1027	954	953	858	750								
25.5	130	414	431	178	86	76	1254	1207	1190	1053	986	982	882	770								
25.75	133	407	472	183	87	76	1265	1222	1207	1065	980	1016	915	801								
26	137	408	445	182	86	76	1269	1234	1203	1060	1023	991	898	788								
26.25	132	414	443	175	87	76	1264	1226	1200	1060	1029	995	895	787								
26.5	130	429	483	184	87	76	1297	1281	1262	1071	1017	980	878	767								
26.75	124	397	448	186	88	77	1274	1247	1232	1073	1044	1001	919	819								
27	132	401	509	189	87	77	1290	1251	1240	1075	1035	1006	914	806								
27.25	134	428	475	181	88	77	1277	1235	1214	1058	1008	984	894	793								
27.5	132	418	454	181	88	78	1274	1242	1228	1069	1008	1000	907	800								
27.75	129	439	456	176	88	78	1277	1242	1211	1075	996	962	872	769								
28	130	424	466	173	88	78	1270	1235	1218	1074	974	963	869	766								
28.25	133	414	463	174	89	78	1269	1235	1218	1082	1002	958	863	772								
28.5	130	422	470	168	89	78	1275	1237	1216	1077	1001	960	861	762								
28.75	136	476	502	172	90	79	1283	1259	1253	1100	1008	998	905	797								
29	137	478	534	171	92	79	1336	1293	1277	1114	1034	1009	913	805								
29.25	141	446	512	168	91	79	1289	1254	1239	1096	1032	995	913	814								
29.5	144	448	527	164	92	80	1321	1305	1277	1124	1055	1007	912	818								
29.75	145	449	503	160	92	80	1297	1276	1256	1107	1029	1011	907	798								
30	148	436	534	158	92	80	1291	1270	1268	1115	1016	990	896	793								
Max Temp	205	478	534	189	92	80																
Max Allw	1000	1000	1000	1000	1000	1000																

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Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail	
	TC#28 (°F)	TC#29 (°F)	TC#30 (°F)	TC#31 (°F)	TC#32 (°F)	TC#33 (°F)	TC#34 (°F)	TC#35 (°F)	TC#36 (°F)	TC#37 (°F)	TC#38 (°F)	TC#39 (°F)	TC#40 (°F)	
0	64	64	65	58	58	59	58	60	61	62	62	62	65	
0.25	64	64	64	57	58	59	58	60	61	62	62	62	65	
0.5	64	66	64	57	58	59	58	60	61	62	62	63	65	
0.75	65	68	65	57	58	59	58	60	61	62	62	63	65	
1	65	69	66	58	58	59	58	60	61	62	62	63	65	
1.25	65	70	67	58	58	59	58	60	61	62	62	63	66	
1.5	66	69	68	57	58	59	58	60	61	62	62	63	66	
1.75	66	69	68	58	58	59	58	60	62	62	62	63	66	
2	67	71	71	58	58	59	58	60	62	62	62	63	67	
2.25	69	79	71	58	59	59	58	60	61	62	63	63	67	
2.5	74	102	79	58	59	59	59	61	62	62	63	64	68	
2.75	78	123	85	58	59	59	59	61	62	63	63	64	68	
3	82	138	86	58	59	59	59	63	62	63	63	64	69	
3.25	87	149	86	58	59	59	59	63	62	63	64	64	70	
3.5	92	156	88	58	59	60	59	63	62	63	64	64	71	
3.75	97	161	90	58	59	60	59	63	62	63	64	64	73	
4	102	168	93	58	59	60	59	64	63	63	64	65	75	
4.25	106	176	100	59	59	60	60	64	63	64	64	65	76	
4.5	106	182	108	59	59	60	60	64	63	64	64	65	78	
4.75	109	181	112	59	60	60	60	64	63	64	64	65	79	
5	109	174	115	59	60	60	60	65	63	64	64	65	82	
5.25	110	173	118	59	60	60	60	65	63	64	64	65	83	
5.5	114	169	122	59	60	60	60	65	63	64	64	65	85	
5.75	116	171	126	59	60	61	60	66	63	64	65	65	87	
6	121	178	130	59	60	61	61	67	63	64	65	65	89	
6.25	118	223	134	60	60	61	61	68	64	64	65	65	91	
6.5	136	258	139	60	61	61	61	68	64	65	65	66	92	
6.75	137	272	157	60	61	61	61	69	65	65	66	66	96	
7	141	286	173	61	62	62	61	69	66	66	66	67	100	
7.25	166	298	195	61	62	62	62	70	66	66	67	67	102	
7.5	197	357	221	61	62	62	62	71	66	67	67	68	106	
7.75	310	385	219	61	62	62	62	75	67	67	67	68	119	
8	355	392	216	61	62	63	62	82	67	67	68	68	154	
8.25	371	408	221	61	62	63	63	90	68	68	68	68	183	
8.5	350	393	213	62	63	63	63	96	68	68	68	69	211	
8.75	338	375	204	62	63	63	63	109	68	68	69	69	218	
9	330	374	206	63	64	64	64	118	69	69	69	69	232	
9.25	334	387	213	63	64	64	64	119	69	69	69	70	238	
9.5	345	396	223	63	64	64	64	143	69	69	70	70	273	
9.75	389	438	245	68	69	68	67	172	70	70	71	71	250	
10	414	455	255	67	67	67	67	175	70	71	71	71	234	
10.25	503	535	317	66	66	66	66	178	73	72	72	72	239	
10.5	588	669	437	66	66	66	70	189	74	74	75	77	286	
10.75	578	672	457	66	67	68	85	218	74	73	74	78	310	
11	574	643	420	76	77	75	82	239	75	75	76	79	298	

TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002_REV.1

Date: 01/19/21

G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail	
	TC#28 (°F)	TC#29 (°F)	TC#30 (°F)	TC#31 (°F)	TC#32 (°F)	TC#33 (°F)	TC#34 (°F)	TC#35 (°F)	TC#36 (°F)	TC#37 (°F)	TC#38 (°F)	TC#39 (°F)	TC#40 (°F)	
11.25	599	671	440	73	73	77	101	249	75	74	76	80	285	
11.5	615	692	425	71	71	75	98	254	80	79	80	82	284	
11.75	555	643	430	71	71	73	94	252	80	79	80	82	274	
12	553	647	439	71	71	73	95	252	80	79	80	81	264	
12.25	543	625	422	74	74	79	94	252	81	80	81	83	265	
12.5	526	596	410	73	73	78	94	253	81	81	83	85	272	
12.75	536	613	411	75	75	79	94	256	82	81	84	87	279	
13	576	664	437	76	77	80	100	260	84	82	84	88	295	
13.25	564	644	426	80	80	84	103	261	83	82	84	87	277	
13.5	540	605	404	80	80	88	112	266	83	82	84	87	289	
13.75	548	621	411	81	82	95	141	271	84	82	85	88	305	
14	574	651	424	80	82	102	156	277	84	83	85	88	291	
14.25	548	623	412	80	82	107	163	281	84	83	85	87	287	
14.5	545	607	405	82	85	111	168	282	85	83	85	87	275	
14.75	555	634	418	82	86	117	171	292	89	86	88	89	285	
15	541	609	406	81	84	114	167	293	92	90	92	94	313	
15.25	558	623	413	82	86	119	166	297	92	90	91	93	318	
15.5	546	599	406	84	89	126	170	309	92	90	91	94	324	
15.75	578	634	421	85	90	133	176	318	93	90	92	95	329	
16	586	640	422	86	90	130	175	319	93	91	93	96	325	
16.25	583	641	425	85	89	128	174	310	90	88	91	97	336	
16.5	591	659	436	85	90	129	173	315	91	89	91	97	329	
16.75	564	618	418	87	94	133	172	317	92	91	93	100	328	
17	570	625	424	86	92	129	170	317	90	88	90	98	321	
17.25	579	642	434	86	94	129	169	319	90	88	91	99	339	
17.5	545	594	416	86	91	130	168	317	90	88	90	100	336	
17.75	577	631	433	87	93	134	170	318	90	88	91	100	334	
18	574	630	430	87	93	136	172	318	91	89	92	102	334	
18.25	610	668	449	88	95	138	173	318	92	90	92	103	340	
18.5	574	628	434	89	94	138	172	319	91	89	92	103	345	
18.75	609	654	448	89	96	132	170	320	92	89	92	105	360	
19	616	670	455	89	95	134	169	321	91	89	92	103	327	
19.25	614	666	457	89	95	136	168	324	91	89	91	104	330	
19.5	574	627	439	89	94	128	168	327	92	90	93	106	349	
19.75	603	645	447	90	96	133	170	327	93	90	94	108	353	
20	622	665	454	90	98	136	170	327	94	92	95	108	350	
20.25	626	672	459	90	97	133	169	329	94	92	96	112	350	
20.5	616	657	449	93	102	138	172	334	93	90	95	111	357	
20.75	606	650	451	93	103	150	176	336	93	91	95	112	378	
21	629	675	459	93	104	140	173	338	95	92	96	112	368	
21.25	612	661	456	92	104	141	173	340	94	92	97	113	371	
21.5	631	675	466	93	106	143	171	341	94	92	96	113	362	
21.75	622	660	460	93	103	144	174	341	95	93	97	114	376	
22	637	684	475	93	104	142	174	341	95	93	99	116	381	

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Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail			Pass/ Fail			Pass/ Fail			Pass/ Fail			Pass/ Fail		
	TC#28 (°F)	TC#29 (°F)	TC#30 (°F)	TC#31 (°F)	TC#32 (°F)	TC#33 (°F)	TC#34 (°F)	TC#35 (°F)	TC#36 (°F)	TC#37 (°F)	TC#38 (°F)	TC#39 (°F)	TC#40 (°F)		
22.25	600	621	442	93	102	141	174	343	98	96	100	117	390		
22.5	633	670	461	94	106	147	176	344	97	96	102	118	376		
22.75	632	676	470	95	103	144	176	346	100	98	102	120	387		
23	664	705	487	95	106	143	176	347	97	95	100	120	397		
23.25	642	690	479	95	108	152	179	348	101	99	103	121	397		
23.5	610	647	462	95	106	150	180	346	98	97	102	121	395		
23.75	645	687	479	95	105	148	181	348	98	97	102	124	385		
24	624	658	465	96	105	142	176	346	101	99	107	128	374		
24.25	597	635	456	96	105	147	179	345	100	98	109	133	384		
24.5	657	700	482	98	105	148	180	346	99	98	112	139	395		
24.75	662	700	488	98	107	149	179	347	101	100	123	146	394		
25	647	674	478	98	107	151	182	346	101	101	125	149	386		
25.25	634	667	473	98	108	153	181	345	103	103	136	151	381		
25.5	650	680	475	98	106	152	182	348	105	106	139	155	379		
25.75	673	712	493	99	107	151	180	350	105	106	147	160	397		
26	666	710	490	99	109	154	183	353	105	109	155	166	388		
26.25	669	716	498	100	110	152	182	354	104	109	158	166	388		
26.5	639	671	475	100	109	154	183	354	104	110	166	174	411		
26.75	697	746	514	101	110	149	183	354	105	109	168	175	389		
27	682	725	506	103	114	156	186	353	108	113	175	183	423		
27.25	672	716	503	104	114	154	186	354	110	120	182	189	406		
27.5	685	730	511	105	116	154	184	357	110	122	183	195	396		
27.75	654	689	490	106	116	155	184	360	112	126	190	197	389		
28	650	689	490	107	117	158	186	361	110	124	192	203	396		
28.25	658	698	490	107	119	158	188	362	110	126	198	210	411		
28.5	641	667	479	108	117	158	190	362	113	126	197	213	397		
28.75	669	693	485	108	119	168	199	366	113	126	197	214	424		
29	671	689	487	115	124	171	203	361	115	126	194	217	436		
29.25	688	724	507	116	134	177	210	365	115	125	191	219	428		
29.5	694	729	516	114	136	186	231	364	118	133	201	225	438		
29.75	674	703	507	114	139	191	232	369	117	126	192	223	423		
30	670	703	507	113	145	215	244	374	115	124	191	226	440		
Max Temp	697			116	145	215	244	374	118	133	201	226	440		
Max Allw	1000			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

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TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002_REV.1

Date: 01/19/21

G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail													
	TC#41 (°F)	TC#42 (°F)	TC#43 (°F)	TC#44 (°F)	TC#45 (°F)	TC#46 (°F)	TC#47 (°F)	TC#48 (°F)	TC#49 (°F)	TC#50 (°F)	TC#51 (°F)	TC#52 (°F)	TC#53 (°F)	TC#54 (°F)
0	74	88	84	66	66	68	65	63	52	52	51	52	52	52
0.25	754	798	665	454	425	528	521	442	52	52	51	52	52	52
0.5	1092	1167	1005	786	756	859	837	755	52	52	51	52	52	52
0.75	1158	1285	1041	898	904	977	950	910	52	52	51	52	52	52
1	1206	1318	1071	949	965	1015	1011	956	52	52	51	52	52	52
1.25	1227	1294	1094	992	996	1035	1032	966	52	52	51	52	52	52
1.5	1256	1328	1118	1017	1023	1059	1089	998	52	52	51	53	53	52
1.75	1296	1343	1127	1036	1047	1138	1200	1117	52	52	51	52	53	52
2	1312	1360	1149	1052	1067	1126	1117	1082	52	52	51	53	53	52
2.25	1305	1367	1176	1066	1077	1118	1110	1055	52	52	52	52	53	52
2.5	1329	1379	1180	1089	1084	1128	1127	1054	52	52	52	53	53	53
2.75	1336	1393	1182	1095	1101	1141	1140	1073	52	52	52	53	53	53
3	1349	1399	1199	1102	1116	1145	1151	1084	52	52	52	53	53	53
3.25	1361	1421	1219	1109	1127	1167	1159	1084	52	52	52	53	53	53
3.5	1380	1452	1234	1117	1140	1189	1167	1093	52	52	52	53	53	53
3.75	1370	1454	1245	1131	1150	1199	1182	1103	52	52	52	53	53	53
4	1407	1513	1257	1141	1158	1217	1189	1111	52	52	52	53	53	53
4.25	1389	1528	1259	1148	1167	1225	1193	1122	52	53	52	53	53	53
4.5	1424	1511	1286	1161	1180	1225	1205	1135	52	53	52	53	53	53
4.75	1439	1515	1297	1164	1184	1237	1220	1141	53	52	52	53	53	53
5	1445	1494	1286	1182	1189	1246	1232	1147	53	53	53	53	53	53
5.25	1461	1516	1310	1184	1209	1251	1225	1156	53	53	52	53	53	53
5.5	1449	1525	1322	1197	1212	1260	1232	1168	53	53	53	53	53	53
5.75	1481	1530	1331	1204	1217	1274	1246	1174	53	53	53	53	53	53
6	1454	1548	1344	1209	1223	1275	1257	1189	53	53	53	53	53	53
6.25	1486	1577	1351	1223	1234	1287	1267	1189	53	53	53	53	53	53
6.5	1493	1565	1341	1233	1240	1292	1266	1202	53	53	53	53	53	53
6.75	1510	1532	1368	1238	1249	1296	1267	1196	53	53	53	53	53	53
7	1465	1581	1360	1243	1251	1306	1282	1203	53	53	53	53	53	54
7.25	1484	1588	1374	1248	1258	1312	1282	1202	53	53	52	53	54	53
7.5	1537	1566	1370	1247	1256	1306	1286	1201	53	53	53	54	54	54
7.75	1478	1547	1372	1244	1259	1305	1281	1215	53	53	53	54	54	54
8	1521	1515	1391	1250	1266	1293	1284	1216	53	53	53	54	54	54
8.25	1499	1594	1379	1245	1271	1321	1297	1225	53	53	53	54	54	54
8.5	1526	1593	1392	1248	1280	1318	1287	1221	53	53	53	54	54	54
8.75	1506	1586	1387	1255	1279	1320	1290	1219	54	53	53	54	54	54
9	1507	1598	1386	1252	1278	1333	1305	1228	54	53	53	54	54	54
9.25	1498	1583	1381	1256	1285	1331	1303	1231	54	53	53	54	54	54
9.5	1537	1606	1397	1261	1296	1340	1307	1238	54	54	53	55	54	54
9.75	1480	1536	1397	1263	1305	1349	1329	1256	54	54	53	55	54	54
10	1513	1493	1381	1263	1308	1366	1356	1302	53	54	53	55	54	54
10.25	1531	1504	1412	1275	1312	1381	1391	1339	54	54	53	55	54	54
10.5	1516	1569	1387	1280	1282	1403	1385	1372	54	54	53	55	54	54
10.75	1532	1611	1395	1301	1266	1400	1412	1385	55	54	53	55	54	54
11	1536	1627	1356	1297	1264	1467	1430	1375	54	54	53	55	54	54

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Date: 01/19/21

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Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	Pass/ Fail													
	TC#41 (°F)	TC#42 (°F)	TC#43 (°F)	TC#44 (°F)	TC#45 (°F)	TC#46 (°F)	TC#47 (°F)	TC#48 (°F)	TC#49 (°F)	TC#50 (°F)	TC#51 (°F)	TC#52 (°F)	TC#53 (°F)	TC#54 (°F)
11.25	1571	1598	1354	1271	1262	1487	1439	1401	54	54	53	55	55	54
11.5	1561	1573	1361	1281	1254	1468	1457	1409	55	55	53	55	55	54
11.75	1587	1593	1371	1299	1255	1465	1486	1430	55	55	53	55	55	55
12	1576	1579	1377	1311	1257	1453	1497	1443	54	55	54	55	55	55
12.25	1641	1524	1395	1323	1262	1462	1490	1435	55	55	54	55	55	54
12.5	1654	1525	1391	1322	1267	1481	1500	1459	55	55	54	56	55	55
12.75	1599	1592	1376	1301	1266	1497	1494	1473	56	56	54	56	55	55
13	1604	1566	1381	1301	1268	1494	1510	1458	57	56	54	56	56	55
13.25	1595	1567	1367	1292	1262	1510	1475	1454	57	56	54	57	57	55
13.5	1589	1564	1377	1302	1260	1491	1466	1437	58	57	54	57	57	55
13.75	1575	1561	1374	1316	1261	1500	1468	1420	58	57	54	58	58	55
14	1567	1586	1377	1317	1261	1488	1476	1427	58	58	54	58	58	55
14.25	1560	1545	1398	1324	1268	1460	1476	1437	59	58	54	59	60	55
14.5	1557	1529	1430	1345	1272	1443	1464	1409	60	59	54	59	60	55
14.75	1537	1500	1458	1354	1281	1428	1451	1377	60	60	54	60	61	55
15	1528	1541	1475	1358	1289	1427	1431	1371	60	61	55	60	62	55
15.25	1596	1553	1519	1387	1314	1465	1483	1410	61	62	55	61	62	55
15.5	1602	1555	1557	1408	1326	1474	1479	1424	62	63	55	61	62	55
15.75	1579	1546	1524	1398	1325	1471	1486	1409	61	64	55	61	64	55
16	1575	1534	1508	1393	1324	1478	1495	1407	62	65	55	62	64	55
16.25	1590	1549	1517	1398	1329	1475	1488	1411	64	65	55	62	65	55
16.5	1592	1554	1521	1409	1342	1459	1473	1431	64	66	56	63	66	56
16.75	1599	1552	1541	1416	1348	1448	1469	1415	63	67	56	65	67	55
17	1573	1601	1555	1411	1353	1456	1461	1426	64	68	56	64	68	56
17.25	1575	1551	1566	1424	1360	1441	1469	1419	65	68	56	64	68	57
17.5	1596	1572	1566	1423	1370	1454	1469	1420	66	68	56	65	67	57
17.75	1548	1591	1553	1407	1370	1443	1454	1411	66	69	57	66	67	57
18	1567	1626	1553	1407	1371	1459	1464	1420	66	69	57	64	67	57
18.25	1550	1615	1561	1407	1374	1461	1467	1412	67	70	57	65	69	57
18.5	1560	1634	1535	1407	1375	1465	1462	1415	67	70	57	66	69	57
18.75	1553	1607	1576	1413	1384	1458	1473	1453	68	70	57	66	69	57
19	1583	1610	1580	1420	1381	1452	1461	1443	68	70	57	67	70	57
19.25	1569	1634	1567	1418	1386	1465	1477	1423	67	70	57	66	70	58
19.5	1552	1653	1541	1411	1390	1487	1488	1442	68	71	58	66	70	58
19.75	1571	1645	1567	1405	1392	1489	1488	1421	69	71	58	66	69	58
20	1578	1671	1558	1407	1399	1506	1487	1426	69	71	58	67	70	59
20.25	1562	1695	1554	1406	1401	1654	1487	1426	71	73	58	70	70	58
20.5	1568	1716	1549	1409	1406	1612	1488	1436	71	71	58	68	71	58
20.75	1570	1674	1561	1404	1407	1624	1495	1430	71	72	58	69	71	59
21	1592	1666	1543	1402	1407	1631	1485	1420	70	72	58	69	71	58
21.25	1575	1708	1536	1399	1414	1628	1488	1424	70	72	58	69	72	58
21.5	1583	1691	1543	1402	1413	1629	1492	1430	70	73	58	69	72	58
21.75	1604	1686	1543	1405	1418	1631	1499	1419	71	72	59	69	71	59
22	1622	1686	1541	1408	1419	1634	1494	1420	71	72	59	69	73	59

TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

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Date: 01/19/21

G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

Time (min)	TC#41 (°F)	TC#42 (°F)	TC#43 (°F)	TC#44 (°F)	TC#45 (°F)	TC#46 (°F)	TC#47 (°F)	TC#48 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
									TC#49 (°F)	TC#50 (°F)	TC#51 (°F)	TC#52 (°F)	TC#53 (°F)	TC#54 (°F)
22.25	1589	1740	1540	1405	1421	1639	1503	1423	73	72	59	70	73	59
22.5	1601	1714	1553	1407	1426	1643	1501	1418	72	72	59	70	72	60
22.75	1580	1666	1522	1401	1417	1627	1493	1417	72	73	59	70	72	60
23	1572	1682	1548	1402	1411	1633	1509	1451	72	73	60	69	71	60
23.25	1581	1709	1562	1412	1416	1628	1508	1440	73	73	60	71	72	60
23.5	1618	1726	1560	1417	1420	1627	1506	1429	72	73	60	70	74	60
23.75	1594	1742	1553	1415	1426	1527	1507	1447	73	73	60	70	72	60
24	1592	1717	1542	1413	1426	1529	1509	1431	73	74	60	70	73	60
24.25	1579	1701	1553	1411	1431	1533	1512	1427	74	73	60	72	73	60
24.5	1579	1726	1532	1411	1434	1621	1504	1431	74	73	60	71	74	60
24.75	1600	1703	1545	1417	1436	1614	1517	1444	73	73	61	70	74	60
25	1614	1712	1574	1423	1434	1526	1514	1446	74	74	61	70	75	61
25.25	1628	1774	1583	1434	1460	1627	1539	1468	73	74	61	71	73	60
25.5	1620	1781	1606	1442	1469	1631	1551	1481	73	74	61	70	73	61
25.75	1658	1780	1596	1448	1476	1617	1569	1492	75	74	61	70	74	61
26	1674	1808	1597	1451	1478	1639	1570	1484	74	75	61	71	73	61
26.25	1665	1794	1630	1458	1485	1634	1570	1490	76	73	61	71	75	62
26.5	1642	1784	1614	1461	1486	1636	1581	1508	76	74	62	73	74	62
26.75	1632	1787	1628	1467	1480	1638	1572	1504	75	75	61	71	75	61
27	1626	1776	1616	1462	1483	1653	1581	1492	75	74	62	72	76	62
27.25	1665	1793	1614	1465	1482	1605	1581	1491	75	75	62	71	75	62
27.5	1665	1789	1608	1472	1485	1602	1580	1502	76	75	62	72	76	61
27.75	1649	1759	1609	1470	1491	1611	1587	1503	77	75	62	71	76	62
28	1660	1749	1606	1474	1489	1606	1575	1502	77	75	62	73	76	62
28.25	1654	1780	1600	1471	1486	1602	1568	1510	78	75	62	74	76	62
28.5	1647	1772	1609	1475	1487	1603	1583	1503	79	76	62	72	75	63
28.75	1668	1806	1619	1476	1500	1604	1579	1506	79	75	62	74	76	63
29	1599	1775	1610	1463	1506	1648	1613	1511	78	76	62	76	76	63
29.25	1647	1762	1621	1464	1513	1669	1598	1529	79	75	63	73	76	63
29.5	1620	1734	1584	1457	1513	1625	1611	1524	81	75	63	78	76	64
29.75	1637	1747	1604	1458	1512	1629	1591	1508	82	75	63	77	76	63
30	1653	1790	1618	1470	1514	1634	1593	1537	82	75	63	78	77	64
Max Temp									82	76	63	78	77	64
Max Allw									552	552	551	552	552	552

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SECTION 14 DRAWINGS

The "As-Built" drawings for the Chameleon Wrapping and Lamination Ltd.; Sheet Nos. 0.0.2 and dated 12/15/2020; which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

***Note – Drawing shows the use of Galvanized 38 × 35 mm Z-Bar but, 20 GA, 1-1/2 in., tall hat-channel was used in its place.**

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SECTION 15

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	01/19/21	N/A	Original Report Issue
1	05/06/21	All	Revised to change report ownership. Changed name throughout report. 