Component - Plastics

File Number: E213445

POLYPLASTICS CO LTD
18-1 KONAN 2-CHOME

Duranex: GFR330(f2)(h4)

Polybutylene Terephthalate (PBT), pellets, glass reinforced

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

(h4) - Virgin and regrind from 26% thru 50% have the same basic material characteristics above the 0.66 mm minimum thickness with the exception of the 5VA flammability rating.

Flammability	Value	Test Method
Flame Rating		UL 94
0.40 mm, ALL	V-2	
0.50 mm, ALL	V-2	
0.66 mm, ALL	V-0	
0.8 mm, ALL	V-0	
1.0 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0, 5VA	
Flammability Classification		IEC 60695-11-10, -20
0.66 mm, ALL	V-0	
0.8 mm, ALL	V-0	
1.0 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0, 5VA	
0.40 mm, ALL	V-2	
0.50 mm, ALL	V-2	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.0 mm	700 °C	
1.5 mm	700 °C	
3.0 mm	675 °C	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
0.50 mm	PLC 4	
0.66 mm	PLC 3	
0.8 mm	PLC 3	
1.0 mm	PLC 3	
1.5 mm	PLC 2	
3.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746
0.50 mm	PLC 0	
0.66 mm	PLC 0	
0.8 mm	PLC 0	
1.0 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746
Dielectric Strength	25 kV/mm	ASTM D149

Form Number: E213445-101703881

Report Date: 2013-11-03
Last Revised: 2019-04-17

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Electrical	Value	Test Method
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257
Volume Resistivity	1.0E+16 ohms·cm	IEC 60093
Arc Resistance	PLC 6	ASTM D495
Electric Strength	25 kV/mm	IEC 60243-1
Thermal	**Value**	**Test Method**
RTI Elec		UL 746
0.40 mm	75.0 °C	
0.50 mm	75.0 °C	
0.66 mm	130 °C	
0.8 mm	130 °C	
1.0 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.40 mm	75.0 °C	
0.50 mm	75.0 °C	
0.66 mm	125 °C	
0.8 mm	125 °C	
1.0 mm	125 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Str		UL 746
0.40 mm	75.0 °C	
0.50 mm	75.0 °C	
0.66 mm	140 °C	
0.8 mm	140 °C	
1.0 mm	140 °C	
1.5 mm	140 °C	
3.0 mm	140 °C	
Physical	**Value**	**Test Method**
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796
Outdoor Suitability	f2	UL 746C

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