



Component - Plastics

File Number: E213445

POLYPLASTICS CO LTD

18-1 KONAN 2-CHOME



Duranex: XFR 4840 GF10 (w)(f1), 310NF (w)(f1)

Polybutylene Terephthalate (PBT), pellets

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(w) - Virgin and regrind up to 50% by weight inclusive, have the same flame characteristics only.

Flammability	Value	Test Method
Flame Rating		UL 94
0.75 mm, BK	V-0	
1.5 mm, BK	V-0	
3.0 mm, BK	V-0, 5VA	
Flammability Classification		IEC 60695-11-10, -20
0.75 mm, BK	V-0	
1.5 mm, BK	V-0	
3.0 mm, BK	V-0, 5VA	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.75 mm	PLC 1	
1.5 mm	PLC 1	
3.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 1	UL 746
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+14 ohms-cm	ASTM D257
Volume Resistivity	1.0E+14 ohms-cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Electric Strength	24 kV/mm	IEC 60243-1
Thermal	Value	Test Method
RTI Elec		UL 746
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.75 mm	125 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	
RTI Str		UL 746
0.75 mm	125 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	



Physical	Value	Test Method
Outdoor Suitability	f1	UL 746C

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ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94
scale test data is intended solely for determining the flammability of plastic materials used in the components and parts
of product devices and appliances, where the acceptability of the combination is determined by UL.

