



Component - Plastics

File Number: E213445

POLYPLASTICS CO LTD

18-1 KONAN 2-CHOME



Duranex: CN70(zz)(a2)(f1)(j)

Polybutylene Terephthalate (PBT), pellets, glass reinforced

(a2) - May be suffixed with one or two letters except XX or MF.

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

(j) - Regrind from 26% to 50% inclusive have the same basic material characteristics except assigned (f2).

(zz) - Two digits 01 thru 29.

Flammability	Value	Test Method
Flame Rating		UL 94
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	
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	
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
0.66 mm	PLC 3	
0.8 mm	PLC 4	
1.0 mm	PLC 4	
1.5 mm	PLC 3	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746
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
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

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Thermal	Value	Test Method
RTI Elec		UL 746
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
0.66 mm	120 °C	
0.8 mm	120 °C	
1.0 mm	120 °C	
1.5 mm	120 °C	
3.0 mm	120 °C	
RTI Str		UL 746
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	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796
Outdoor Suitability	f1	UL 746C

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