



Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

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LAPEROS: E130i(dd)(e)(f1)

Liquid Crystal Polymer (LCP), pellets, thermotropic aromatic polyester

(dd) - Virgin and regrind up to 50% by weight incl., have the same basic material characteristics in NC and BK.

(e) - Regrind from 26-50% by weight inclusive has an Impact RTI of 180C at thicknesses greater than 1.5mm.

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

Flammability	Value	Test Method
Flame Rating		UL 94
0.200 mm, NC, BK	V-0	
0.38 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0	
3.0 mm, NC, BK	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.200 mm, NC, BK	V-0	
0.38 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0	
3.0 mm, NC, BK	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.38 mm	960 °C	
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.38 mm	850 °C	
0.75 mm	850 °C	
1.5 mm	850 °C	
3.0 mm	900 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.200 mm	PLC 4	
0.38 mm	PLC 4	
0.75 mm	PLC 2	
1.5 mm	PLC 1	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
0.200 mm	PLC 0	
0.38 mm	PLC 0	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 4	UL 746A
Dielectric Strength	39 kV/mm	ASTM D149

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Electrical	Value	Test Method
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746A
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257
Volume Resistivity	1.0E+16 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.200 mm	130 °C	
0.38 mm	130 °C	
0.75 mm	240 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	
RTI Imp		UL 746B
0.200 mm	130 °C	
0.38 mm	130 °C	
0.75 mm	220 °C	
1.5 mm	220 °C	
3.0 mm	220 °C	
RTI Str		UL 746B
0.200 mm	130 °C	
0.38 mm	130 °C	
0.75 mm	240 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	
Ball Pressure Test (260°C)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796
Outdoor Suitability	f1	UL 746C

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