



Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

18-1 KONAN



LAPEROS: T130(m)(f2)

Liquid Crystal Polymer (LCP), pellets

- (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.
- (m) - Virgin and regrind up to 25% by weight incl. have the same basic material characteristics. In addition, 26 to 50% by weight incl. have the same basic material characteristics in natural color only except for HWI at any thickness, HAI below 0.88 mm and flammability below 0.28 mm.

Flammability	Value	Test Method
Flame Rating		UL 94
0.100 mm, NC, BK	V-0	
0.28 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
0.9 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
0.100 mm, NC, BK	V-0	
0.28 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
0.9 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0	
3.0 mm, NC, BK	V-0	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.28 mm	PLC 4	
0.40 mm	PLC 4	
0.9 mm	PLC 2	
1.5 mm	PLC 1	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.28 mm	PLC 4	
0.40 mm	PLC 3	
0.9 mm	PLC 3	
1.5 mm	PLC 3	
3.0 mm	PLC 3	
Comparative Tracking Index (CTI)	PLC 3	UL 746
Dielectric Strength	44 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257
Volume Resistivity	1.0E+14 ohms·cm	IEC 60093
Arc Resistance	PLC 4	ASTM D495
Electric Strength	44 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.100 mm	130 °C	
0.28 mm	130 °C	
0.40 mm	130 °C	
0.9 mm	240 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	
RTI Imp		UL 746
0.100 mm	130 °C	
0.28 mm	130 °C	
0.40 mm	130 °C	
0.9 mm	180 °C	
1.5 mm	180 °C	
3.0 mm	180 °C	
RTI Str		UL 746
0.100 mm	130 °C	
0.28 mm	130 °C	
0.40 mm	130 °C	
0.9 mm	220 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	
Physical	Value	Test Method
Outdoor Suitability	f2	UL 746C

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