



Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

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LAPEROS: A130(a)

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

(a) - Virgin and regrind up to 50% by weight incl. have the same basic material characteristics except RTI's are 180C @ a min thickness of 0.75mm for all properties from 26 to 50% incl. Grade has not been evaluated at 0.2 mm for regrind.

Flammability	Value	Test Method
Flame Rating		UL 94
0.200 mm, ALL	V-0	
0.45 mm, ALL	V-0	
0.9 mm, ALL	V-0	
1.6 mm, NC	V-0, 5VA	
3.0 mm, ALL	V-0, 5VA	
Flammability Classification		IEC 60695-11-10, -20
0.200 mm, ALL	V-0	
0.45 mm, ALL	V-0	
0.9 mm, ALL	V-0	
1.6 mm, NC	V-0, 5VA	
3.0 mm, ALL	V-0, 5VA	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
1.6 mm	PLC 2	
3.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
1.6 mm	PLC 4	
3.0 mm	PLC 4	
Comparative Tracking Index (CTI)	PLC 4	UL 746A
Dielectric Strength	35 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746A
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.200 mm	130 °C	
0.45 mm	130 °C	
0.9 mm	240 °C	
1.6 mm	240 °C	
3.0 mm	240 °C	
RTI Imp		UL 746B
0.200 mm	130 °C	
0.45 mm	130 °C	
0.9 mm	220 °C	
1.6 mm	220 °C	
3.0 mm	220 °C	

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Thermal	Value	Test Method
RTI Str		UL 746B
0.200 mm	130 °C	
0.45 mm	130 °C	
0.9 mm	220 °C	
1.6 mm	220 °C	
3.0 mm	220 °C	
Physical	Value	Test Method
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796

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