



Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

18-1 KONAN 2-CHOME
MINATO-KU, Tokyo 108-8280 Japan



LAPEROS: E480i(+1)

Liquid Crystal Polymer (LCP), pellets

(+1) - Virgin and regrind up to 25% by weight incl. have the same basic material characteristics. In addition 26 to 50% have the same characteristics in NC and BK at a min 1.5mm except the RTI w. imp property is 180C.

Flammability	Value	Test Method
Flame Rating		UL 94
0.150 mm, BK	V-0	
0.200 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.150 mm, BK	V-0	
0.200 mm, NC, BK	V-0	
0.75 mm, NC, BK	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.200 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 1	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Dielectric Strength	27 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
0.150 mm	130 °C	
0.200 mm	130 °C	
0.75 mm	240 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	

Component - Plastics

File Number: E106764



Thermal	Value	Test Method
RTI Imp		UL 746B
0.150 mm	130 °C	
0.200 mm	130 °C	
0.75 mm	220 °C	
1.5 mm	220 °C	
3.0 mm	220 °C	
RTI Str		UL 746B
0.150 mm	130 °C	
0.200 mm	130 °C	
0.75 mm	240 °C	
1.5 mm	240 °C	
3.0 mm	240 °C	
Physical	Value	Test Method
Dimensional Change	0.090 %	ASTM D1042
Dimensional Change	0.090 %	ISO 2796

Notice of Disclaimer

By accessing this Yellow Card data information sheet and the database from which this information was generated (the "Yellow Card"), the user acknowledges and accepts the terms and conditions upon which this Yellow Card is made available. This Yellow Card, the database from which it was generated, and all related materials, support, and services, are made available by UL for use only by permission and "as is", without any representation or warranty of any kind, express or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose or that the products identified in this Yellow Card will satisfy the user's requirements. UL cannot and does not warrant that the data contained in this Yellow Card is current, accurate, or complete. The user must independently confirm the conformance of any product to the applicable standards or requirements with the manufacturer of that product. Permission to access this Yellow Card may be withdrawn at any time by UL in its sole discretion. The identification of products and companies on this Yellow Card does not in any way imply endorsement of those products or companies by UL. UL does not assume and expressly disclaims, liability to any person for any loss or damage (including lost profits, lost savings, or any indirect, special, incidental, consequential or punitive damages whether or not UL has been advised of the possibility of such damages) arising out of, or in connection with, the use of this Yellow Card regardless of the cause or causes of such loss or damage.