



Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

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MINATO-KU, Tokyo 108-8280 Japan



LAPEROS: A150

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

| Flammability | Value | Test Method |
|---------------------------------------|-----------------|----------------------|
| Flame Rating | | UL 94 |
| 0.44 mm, NC, BK | V-0 | |
| 0.8 mm, NC, BK | V-0 | |
| 6.0 mm, NC, BK | V-0 | |
| 1.5 mm, NC | 5VA | |
| 3.0 mm, NC | 5VA | |
| Flammability Classification | | IEC 60695-11-10, -20 |
| 0.44 mm, NC, BK | V-0 | |
| 0.8 mm, NC, BK | V-0 | |
| 6.0 mm, NC, BK | V-0 | |
| 1.5 mm, NC | 5VA | |
| 3.0 mm, NC | 5VA | |
| Electrical | Value | Test Method |
| Hot-wire Ignition (HWI) | | UL 746A |
| 1.5 mm | PLC 1 | |
| 3.0 mm | PLC 1 | |
| 6.0 mm | PLC 0 | |
| High Amp Arc Ignition (HAI) | | UL 746A |
| 1.5 mm | PLC 4 | |
| 3.0 mm | PLC 4 | |
| 6.0 mm | PLC 4 | |
| Comparative Tracking Index (CTI) | PLC 3 | 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 4 | ASTM D495 |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746B |
| 0.44 mm | 130 °C | |
| 0.8 mm | 220 °C | |
| 1.5 mm | 220 °C | |
| 3.0 mm | 220 °C | |
| 6.0 mm | 220 °C | |
| RTI Imp | | UL 746B |
| 0.44 mm | 130 °C | |
| 0.8 mm | 220 °C | |
| 1.5 mm | 220 °C | |
| 3.0 mm | 220 °C | |
| 6.0 mm | 220 °C | |

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| Thermal | Value | Test Method |
|--------------------|--------|-------------|
| RTI Str | | UL 746B |
| 0.44 mm | 130 °C | |
| 0.8 mm | 220 °C | |
| 1.5 mm | 220 °C | |
| 3.0 mm | 220 °C | |
| 6.0 mm | 220 °C | |
| Physical | Value | Test Method |
| Dimensional Change | 0.0 % | ASTM D1042 |
| Dimensional Change | 0.0 % | ISO 2796 |

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