



Component - Plastics

File Number: E45034

POLYPLASTICS CO LTD

18-1 KONAN, 2-CHOME, MINATO-KU TOKYO 108-8280 JP



DURACON: M25-44(r5), M90-44(r5), M140-44(r5), M270-44(r5), M450-44(r5)

Acetal "Polyoxymethylene" (POM), pellets

(r5) - Virgin and Re grind from 1 to 100% by weight inclusive have the same basic material charactersitics except for the RTI's are 50C for all three properties for Re grind from 26 - 100%

| Flammability | Value | Test Method |
|---------------------------------------|-----------------|----------------------|
| Flame Rating | | UL 94 |
| 0.75 mm, ALL | HB | |
| 1.5 mm, ALL | HB | |
| 3.0 mm, ALL | HB | |
| Flammability Classification | | IEC 60695-11-10, -20 |
| 3.0 mm, ALL | HB40 | |
| 0.75 mm, ALL | HB75 | |
| 1.5 mm, ALL | HB75 | |
| Electrical | Value | Test Method |
| Hot-wire Ignition (HWI) | | UL 746 |
| 0.75 mm | PLC 4 | |
| 1.5 mm | PLC 4 | |
| 3.0 mm | PLC 3 | |
| High Amp Arc Ignition (HAI) | | UL 746 |
| 0.75 mm | PLC 0 | |
| 1.5 mm | PLC 0 | |
| 3.0 mm | PLC 0 | |
| Comparative Tracking Index (CTI) | PLC 0 | UL 746 |
| Dielectric Strength | 29 kV/mm | ASTM D149 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 0 | UL 746 |
| Volume Resistivity | 1.0E+15 ohms-cm | ASTM D257 |
| Volume Resistivity | 1.0E+15 ohms-cm | IEC 60093 |
| Arc Resistance | PLC 5 | ASTM D495 |
| Electric Strength | 29 kV/mm | IEC 60243-1 |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746 |
| 0.75 mm | 110 °C | |
| 1.5 mm | 110 °C | |
| 3.0 mm | 110 °C | |
| RTI Imp | | UL 746 |
| 0.75 mm | 95.0 °C | |
| 1.5 mm | 95.0 °C | |
| 3.0 mm | 95.0 °C | |
| RTI Str | | UL 746 |
| 0.75 mm | 100 °C | |
| 1.5 mm | 100 °C | |
| 3.0 mm | 100 °C | |
| Physical | Value | Test Method |
| Dimensional Stability | 0.0 % | ASTM D1042 |

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| Physical | Value | Test Method |
|-----------------------|-------|-------------|
| Dimensional Stability | 0.0 % | ISO 2796 |

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