

Smoothblend® POM-1400

Acetal (POM) Homopolymer

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Smoothblend® POM-1400 is a wear resistance polyacetal compound offering superb lubricity by incorporating PTFE. It is developed for applications demanding stringent wear resistant and low friction performance.

| General Information | | | |
|--|--------------------------|-------------------|-------------|
| Additive | PTFE Lubricant (20%) | | |
| Features | Good Chemical Resistance | | |
| | Good Thermal Stability | | |
| | Good Wear Resistance | | |
| | Low Friction | | |
| | Lubricated | | |
| Uses | Automotive Applications | | |
| | Bushings | | |
| | Engineering Parts | | |
| | Gears | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.50 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.20 mm) | 2.0 to 3.0 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 48.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 35 | % | ASTM D638 |
| Flexural Modulus | 2180 | MPa | ASTM D790 |
| Flexural Strength | 70.0 | MPa | ASTM D790 |
| Coefficient of Friction | | | ASTM D1894 |
| vs. Steel - Dynamic | 0.25 | | |
| vs. Steel - Static | 0.12 | | |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 55 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm) | 91.0 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| Injection | Nominal Value | Unit | |

| | | |
|------------------------|-------------|----|
| Drying Temperature | 80.0 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 180 to 185 | °C |
| Middle Temperature | 185 to 190 | °C |
| Front Temperature | 190 to 200 | °C |
| Nozzle Temperature | 200 to 210 | °C |
| Processing (Melt) Temp | 185 to 215 | °C |
| Mold Temperature | 80.0 to 105 | °C |

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