

Eurostar Star L POM D36 POM, Injection Molded

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Star L POM D36 is Molybdenum Disulfide Lubricated, POM Copolymer Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Star-L-POM-D36-POM-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|--|------------|
| Density | 1.42 g/cc | 0.0513 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.026 - 0.034 cm/cm @Thickness 4.00 mm | 0.026 - 0.034 in/in @Thickness 0.157 in | E2P method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | ISO 527 |
| Elongation at Break | 31 % | 31 % | ISO 527 |
| Flexural Strength | 70.0 MPa | 10200 psi | ISO 178 |
| Flexural Modulus | 2.20 GPa | 319 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 12.0 kJ/m ² | 5.71 ft-lb/in ² | 80x10x4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 110 kJ/m ² | 52.3 ft-lb/in ² | 80x10x4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|--------------------------------------|
| Melting Point | 169 °C | 336 °F | ISO 3146 |
| Deflection Temperature at 0.46 MPa (66 psi) | 145 °C | 293 °F | Edgew 120x10x4, sp=100 mm; ISO 75/Be |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------------|---------------------------|----------|
| Zone 1 | 180 - 190 °C | 356 - 374 °F | |
| Zone 2 | 180 - 190 °C | 356 - 374 °F | |
| Zone 3 | 180 - 200 °C | 356 - 392 °F | |
| Melt Temperature | 180 - 200 °C | 356 - 392 °F | |
| Mold Temperature | 60.0 - 100 °C | 140 - 212 °F | |
| Drying Temperature | 80.0 °C @Time 14400 sec | 176 °F @Time 4.00 hour | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
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