

Eurostar Starpylen HZ 50E3 PP, Injection Molded

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

PRELIMINARY-Starpylen HZ 50E3 is a High Specific Gravity Polypropylene (density 1.5), Injection Molding Resin (also known as HZ50E3)Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-HZ-50E3-PP-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|----------|
| Density | 1.50 g/cc | 0.0542 lb/in ³ | ISO 1183 |
| Melt Flow | 24 g/10 min @Load 2.16 kg, Temperature 230 °C | 24 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength, Yield | 22.0 MPa | 3190 psi | ISO 527 |
| Elongation at Break | 27 % | 27 % | ISO 527 |
| Flexural Strength | 36.0 MPa | 5220 psi | ISO 178 |
| Flexural Modulus | 2.30 GPa | 334 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 2.90 kJ/m ² | 1.38 ft-lb/in ² | 80x10x4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 28.0 kJ/m ² | 13.3 ft-lb/in ² | 80x10x4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 61.0 °C | 142 °F | Flatw 80x10x4, sp=64 mm; ISO 75/Af |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|---------------|----------|
| Zone 1 | 195 - 205 °C | 383 - 401 °F | |
| Zone 2 | 215 - 225 °C | 419 - 437 °F | |
| Zone 3 | 225 - 250 °C | 437 - 482 °F | |
| Melt Temperature | 225 - 250 °C | 437 - 482 °F | |
| Mold Temperature | 30.0 - 50.0 °C | 86.0 - 122 °F | |
| Drying Temperature | 70.0 °C | 158 °F | |

| Processing Properties | @Time 10800 sec Metric | @Time 3.00 hour English | Comments |
|-----------------------|---------------------------|----------------------------|----------|
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