

IRPC Polimaxx Polene HI650 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

APPLICATIONS: INJECTION MOULDING, ELECTRICAL APPLIANCES, HOUSEHOLD PRODUCT, TOYS, SANITARY WARES. etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-HI650-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Melt Flow | 8.0 g/10 min @Load 5.00 kg, Temperature 200 Å°C | 8.0 g/10 min @Load 11.0 lb, Temperature 392 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|-----------|
| Hardness, Rockwell L | 79 @Thickness 6.35 mm, Temperature 23.0 Å°C | 79 @Thickness 0.250 in, Temperature 73.4 Å°F | ASTM D785 |
| Tensile Strength, Yield | 22.8 MPa @Temperature 23.0 Å°C | 3310 psi @Temperature 73.4 Å°F | ASTM D638 |
| Flexural Yield Strength | 44.1 MPa @Temperature 23.0 Å°C | 6400 psi @Temperature 73.4 Å°F | ASTM D790 |
| Flexural Modulus | 2.28 GPa @Temperature 23.0 Å°C | 330 ksi @Temperature 73.4 Å°F | ASTM D790 |
| Izod Impact, Notched | 0.110 J/cm @Thickness 6.35 mm, Temperature 23.0 Å°C | 0.206 ft-lb/in @Thickness 0.250 in, Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 Å°C @Thickness 6.35 mm | 194 Å°F @Thickness 0.250 in | ASTM D648 |
| Vicat Softening Point | 96.0 Å°C @Load 1.00 kg, Thickness 3.17 mm | 205 Å°F @Load 2.20 lb, Thickness 0.125 in | ASTM D1525 |
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |

| Processing Properties | Metric | English | Comments |
|------------------------|--|---|----------|
| Processing Temperature | 210 - 230 Â°C | 410 - 446 Â°F | |
| Drying Temperature | 80.0 - 85.0 Â°C @Time 7200 - 10800 sec | 176 - 185 Â°F @Time 2.00 - 3.00 hour | |

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