

Fiberfil® M-2450 Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by FIBERFIL Engineered Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fiberfil-M-2450-Polypropylene-Copolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|------------------------------------|------------------|
| Specific Gravity | 1.06 g/cc | 1.06 g/cc | ASTM D792 |
| Water Absorption | 0.020 % | 0.020 % | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.010 cm/cm @Thickness 3.17 mm | 0.010 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|---------------------------------------|-------------------|
| Tensile Strength, Yield | 26.2 MPa | 3800 psi | ASTM D638 |
| Elongation at Yield | 77 % | 77 % | ASTM D638 |
| Flexural Strength | 40.0 MPa | 5800 psi | ASTM D790 |
| Flexural Modulus | 1.45 GPa | 210 ksi | Secant; ASTM D790 |
| Izod Impact, Notched | 0.246 J/cm @Thickness 3.17 mm | 0.460 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 95.0 Å°C | 203 Å°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 57.2 Å°C | 135 Å°F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------|
| Rear Barrel Temperature | 199 - 210 Å°C | 390 - 410 Å°F | |
| Middle Barrel Temperature | 204 - 227 Å°C | 400 - 440 Å°F | |
| Front Barrel Temperature | 182 - 199 Å°C | 360 - 390 Å°F | |
| Nozzle Temperature | 182 - 193 Å°C | 360 - 380 Å°F | |
| Melt Temperature | 199 - 232 Å°C | 390 - 450 Å°F | |

| Mold Temperature Processing Properties | 37.8 - 71.1 Å°C Metric | 100 - 160 Å°F English | Comments |
|---|---------------------------|--------------------------|----------|
| Back Pressure | 0.345 MPa | 50.0 psi | |

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