

Oxford Polymers PEI 1010 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Product Description: (Unreinforced), Polyetherimide injection molding grade, high flow Processing and Delivery Form: Pellets and Injection

Molding Additives: Release Agents Special Characteristics: Colors Available Information provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PEI-1010-PEI.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---|--|-----------|
| Density | 1.27 g/cc | 0.0459 lb/in ³ | ASTM D792 |
| Water Absorption at Saturation | 0.250 % | 0.250 % | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.00500 - 0.00700 cm/cm @Thickness 3.17 mm | 0.00500 - 0.00700 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------|--------------------------------------|-----------|
| Tensile Strength at Break | 105 MPa | 15200 psi | ASTM D638 |
| Elongation at Break | 3.00 % | 3.00 % | ASTM D638 |
| Flexural Strength | 152 MPa | 22000 psi | ASTM D790 |
| Flexural Modulus | 3.31 GPa | 480 ksi | ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm @Thickness 3.17 mm | 1.00 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|--------------|----------|
| Rear Barrel Temperature | 349 - 371 °C | 660 - 700 °F | |
| Middle Barrel Temperature | 354 - 377 °C | 670 - 710 °F | |
| Front Barrel Temperature | 360 - 382 °C | 680 - 720 °F | |
| Nozzle Temperature | 360 - 382 °C | 680 - 720 °F | |
| Melt Temperature | 338 - 427 °C | 640 - 800 °F | |
| Mold Temperature | 65.6 - 177 °C | 150 - 350 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|----------|
| Drying Temperature | = 135 °C | = 275 °F | |
| Dry Time | 4.00 - 6.00 hour | 4.00 - 6.00 hour | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China