

SABIC Innovative Plastics ULTEM 1110 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Enhanced flow Polyetherimide (Tg 217C). ECO Conforming.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-1110-PEI.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|--------------|
| Specific Gravity | 1.36 g/cc | 1.36 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0070 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 16 g/10 min @Load 6.60 kg, Temperature 337 Â°C | 16 g/10 min @Load 14.6 lb, Temperature 639 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|---------------------------------------|------------------------------------|
| Tensile Strength, Yield | 110 MPa | 16000 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 70 % | 70 % | Type I, 5 mm/min; ASTM D638 |
| Tensile Modulus | 3.72 GPa | 540 ksi | 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 165 MPa | 23900 psi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Flexural Modulus | 3.72 GPa | 540 ksi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Izod Impact, Notched | 16.02 J/cm @Thickness 3.20 mm | 30.01 ft-lb/in @Thickness 0.126 in | ASTM D256 |
| Gardner Impact | 23.0 J | 17.0 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 198 Â°C @Thickness 6.40 mm | 388 Â°F @Thickness 0.252 in | unannealed; ASTM D648 |
| Glass Transition Temp, Tg | 217 Â°C | 423 Â°F | |
| Flammability, UL94 | V-0 @Thickness 0.750 mm | V-0 @Thickness 0.0295 in | UL 94 |
| | 5VA | 5VA | |

Thermal Properties

Metric
@ Thickness 3.00 mm

English
@ Thickness 0.118 in

11.94
Comments

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