

SABIC Innovative Plastics EXTEM UH1006 TPI Blend (Asia Pacific)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

High heat amorphous TPI Blend, Chemical Resistant

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-EXTEM-UH1006-TPI-Blend-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|--------------|
| Specific Gravity | 1.37 g/cc | 1.37 g/cc | ASTM D792 |
| Density | 1.37 g/cc | 0.0495 lb/in ³ | ISO 1183 |
| Water Absorption | 0.60 % @Time 173000 sec | 0.60 % @Time 48.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0080 - 0.010 cm/cm @Thickness 3.20 mm | 0.0080 - 0.010 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 6.0 g/10 min @Load 6.60 kg, Temperature 400 °C | 6.0 g/10 min @Load 14.6 lb, Temperature 752 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|-----------------------------------|
| Tensile Strength at Break | 107 MPa | 15500 psi | 5 mm/min; ISO 527 |
| | 110 MPa | 16000 psi | Type I, 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | 112 MPa | 16200 psi | 5 mm/min; ISO 527 |
| | 120 MPa | 17400 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 19 % | 19 % | 5 mm/min; ISO 527 |
| | 20 % | 20 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 9.0 % | 9.0 % | Type I, 5 mm/min; ASTM D638 |
| | 9.0 % | 9.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 3.50 GPa | 508 ksi | 1 mm/min; ISO 527 |
| | 3.80 GPa | 551 ksi | 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 155 MPa | 22500 psi | 2 mm/min; ISO 178 |
| | 175 MPa | 25400 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Flexural Modulus Mechanical Properties | 3.00 GPa Metric | 435 ksi English | 2 mm/min; ISO 178 Comments |
|---|------------------------|----------------------------|-----------------------------------|
| | 3.52 GPa | 511 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 0.750 J/cm | 1.41 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² | 4.28 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Charpy Impact, Notched | 2.00 J/cm ² | 9.52 ft-lb/in ² | ISO 179/2C |

| Thermal Properties | Metric | English | Comments |
|---|----------------------------|----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 46.0 µm/m-°C | 25.6 µin/in-°F | ASTM E 831 |
| | @Temperature 23.0 - 150 °C | @Temperature 73.4 - 302 °F | |
| CTE, linear, Transverse to Flow | 47.0 µm/m-°C | 26.1 µin/in-°F | ASTM E 831 |
| | @Temperature 23.0 - 150 °C | @Temperature 73.4 - 302 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 263 °C | 505 °F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 231 °C | 448 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 240 °C | 464 °F | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point | 257 °C | 495 °F | Rate B/50; ASTM D1525 |
| | 262 °C | 504 °F | Rate B/50; ISO 306 |
| | 262 °C | 504 °F | Rate B/120; ISO 306 |

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