

SABIC Innovative Plastics Noryl GTX GTX966 PPE+PA66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polyphenylene Ether/PPO

Material Notes:

>PPE+PA66-I-TD10

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX966-PPEPA66-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|--|
| Specific Gravity | 1.16 g/cc | 1.16 g/cc | ASTM D 792 |
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 1.1 % | 1.1 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 3.8 % @Temperature 23.0 ^o C | 3.8 % @Temperature 73.4 ^o F | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.010 - 0.012 cm/cm | 0.010 - 0.012 in/in | on tensile bar; SABIC Method |
| | 0.010 - 0.012 cm/cm @Thickness 3.20 mm | 0.010 - 0.012 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0090 - 0.011 cm/cm @Thickness 3.20 mm | 0.0090 - 0.011 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 15 g/10 min @Load 5.00 kg, Temperature 280 ^o C | 15 g/10 min @Load 11.0 lb, Temperature 536 ^o F | ASTM D 1238 |
| | 20 g/10 min @Load 5.00 kg, Temperature 280 ^o C | 20 g/10 min @Load 11.0 lb, Temperature 536 ^o F | [cm ³ /10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|------------------------------|
| Tensile Strength at Break | 60.0 MPa | 8700 psi | Type I, 5 mm/min; ASTM D 638 |
| | 60.0 MPa | 8700 psi | 50 mm/min; ISO 527 |
| Tensile Strength, Yield | 65.0 MPa | 9430 psi | Type I, 5 mm/min; ASTM D 638 |
| | 65.0 MPa | 9430 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 20 % | 20 % | 50 mm/min; ISO 527 |

| Mechanical Properties | 40 % Metric | 40 % English | Type I, 5 mm/min; ASTM D 638 Comments |
|------------------------------|--|--|--|
| Elongation at Yield | 4.5 % | 4.5 % | Type I, 5 mm/min; ASTM D 638 |
| | 4.5 % | 4.5 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 3.00 GPa | 435 ksi | 5 mm/min; ASTM D 638 |
| | 3.10 GPa | 450 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 90.0 MPa | 13100 psi | 2 mm/min; ISO 178 |
| | 100 MPa | 14500 psi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Flexural Modulus | 2.90 GPa | 421 ksi | 2 mm/min; ISO 178 |
| | 2.95 GPa | 428 ksi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Izod Impact, Notched | 0.600 J/cm @Temperature 23.0 Â°C | 1.12 ft-lb/in @Temperature 73.4 Â°F | ASTM D 256 |
| | 0.600 J/cm @Temperature -30.0 Â°C | 1.12 ft-lb/in @Temperature -22.0 Â°F | ASTM D 256 |
| Izod Impact, Notched (ISO) | 5.00 kJ/mÂ² @Temperature -30.0 Â°C | 2.38 ft-lb/inÂ² @Temperature -22.0 Â°F | 80*10*4; ISO 180/1A |
| | 7.00 kJ/mÂ² @Temperature 23.0 Â°C | 3.33 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | NB @Temperature 23.0 Â°C | NB @Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |
| Charpy Impact, Notched | 0.800 J/cmÂ² @Temperature 23.0 Â°C | 3.81 ft-lb/inÂ² @Temperature 73.4 Â°F | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| Impact Test | 25.0 J @Temperature 23.0 Â°C | 18.4 ft-lb @Temperature 73.4 Â°F | Instrumented Impact Total Energy; ASTM D 3763 |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|---------------------------------------|---|-------------|
| CTE, linear, Parallel to Flow | 70.0 Âµm/m-Â°C @Temperature 23.0 - | 38.9 Âµin/in-Â°F @Temperature 73.4 - | ISO 11359-2 |

| Thermal Properties | 60.0 Å°C Metric | 140 Å°F English | Comments |
|---|-------------------------------|------------------------------|----------------------------------|
| | 71.0 Åµm/m-Å°C | 39.4 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| CTE, linear, Transverse to Flow | 75.0 Åµm/m-Å°C | 41.7 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 Å°C | @Temperature 73.4 - 140 Å°F | |
| | 79.0 Åµm/m-Å°C | 43.9 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 190 Å°C | 374 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 190 Å°C | 374 Å°F | unannealed; ASTM D 648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Vicat Softening Point | 195 Å°C | 383 Å°F | Rate B/50; ISO 306 |
| | 200 Å°C | 392 Å°F | Rate B/120; ISO 306 |
| | 200 Å°C | 392 Å°F | Rate B/50; ASTM D 1525 |

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