

SABIC Innovative Plastics NORYL GTX GTX674PC PPE+PA6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Polyphenylene Ether/PPO

Material Notes:

A conductive PPE/PA blend designed to have improved surface appearance and elevated heat resistance for powder coating. The material is suitable for injection molding. The material is only available in black.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX674PC-PPEPA6-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|--------------|
| Specific Gravity | 1.11 g/cc | 1.11 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.010 - 0.013 cm/cm @Thickness 3.20 mm | 0.010 - 0.013 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 25 g/10 min @Load 5.00 kg, Temperature 300 Â°C | 25 g/10 min @Load 11.0 lb, Temperature 572 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|---------------|-----------------------------------|
| Tensile Strength at Break | 60.0 MPa | 8700 psi | 50 mm/min; ISO 527 |
| | 64.0 MPa | 9280 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 65.0 MPa | 9430 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | 50 mm/min; ISO 527 |
| | 4.0 % | 4.0 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 3.0 % | 3.0 % | 50 mm/min; ISO 527 |
| | 3.0 % | 3.0 % | Type I, 50 mm/min; ASTM D638 |
| Tensile Modulus | 2.81 GPa | 408 ksi | 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 103 MPa | 14900 psi | 2 mm/min; ISO 178 |
| | 109 MPa | 15800 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.48 GPa | 360 ksi | 2 mm/min; ISO 178 |
| | 2.89 GPa | 419 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 0.740 J/cm | 1.39 ft-lb/in | ASTM D256 |

| Mechanical Properties | 0.500 J/cm Metric | 0.937 ft-lb/in English | Comments ASTM D256 |
|-------------------------|------------------------------------|-------------------------------------|-----------------------|
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| Dart Drop, Total Energy | 4.00 J @Temperature 23.0 Â°C | 2.95 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|---------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 76.0 Âµm/m-Â°C | 42.2 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| CTE, linear, Transverse to Flow | 81.0 Âµm/m-Â°C | 45.0 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 Â°C | @Temperature 73.4 - 176 Â°F | |
| CTE, linear, Transverse to Flow | 78.0 Âµm/m-Â°C | 43.3 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 86.0 Âµm/m-Â°C | 47.8 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 Â°C | @Temperature 73.4 - 176 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 185 Â°C | 365 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 188 Â°C @Thickness 3.20 mm | 370 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point | 196 Â°C | 385 Â°F | Rate B/120; ISO 306 |
| | 197 Â°C | 387 Â°F | Rate B/50; ISO 306 |
| | 197 Â°C | 387 Â°F | Rate B/50; ASTM D1525 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|--------------|
| Volume Resistivity | 1000 - 10000 ohm-cm | 1000 - 10000 ohm-cm | SABIC Method |

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