

SABIC Innovative Plastics Noryl N750T PPE+HIPS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

ECO-FLO(tm). ECO conforming, nonhalogenated flame retardant PPE+PS. High flow. Electrical, TV and Business equipment applications. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-N750T-PPEHIPS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|--------------|
| Specific Gravity | 1.12 g/cc | 1.12 g/cc | ASTM D 792 |
| 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 | 30 g/10 min @Load 3.80 kg, Temperature 260 Å°C | 30 g/10 min @Load 8.38 lb, Temperature 500 Å°F | ASTM D 1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------------------|--|--|
| Tensile Strength at Break | 44.0 MPa | 6380 psi | Type I, 50 mm/min; ASTM D 638 |
| Tensile Strength, Yield | 55.0 MPa | 7980 psi | Type I, 50 mm/min; ASTM D 638 |
| Elongation at Break | 25 % | 25 % | Type I, 50 mm/min; ASTM D 638 |
| Elongation at Yield | 3.0 % | 3.0 % | Type I, 50 mm/min; ASTM D 638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | 50 mm/min; ASTM D 638 |
| Flexural Yield Strength | 82.0 MPa | 11900 psi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Flexural Modulus | 2.41 GPa | 350 ksi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Izod Impact, Notched | 1.33 J/cm @Temperature 23.0 Å°C | 2.49 ft-lb/in @Temperature 73.4 Å°F | ASTM D 256 |
| Impact Test | 33.0 J @Temperature 23.0 Å°C | 24.3 ft-lb @Temperature 73.4 Å°F | Instrumented Impact Total Energy; ASTM D 3763 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------------|------------------|----------|
| | 77.4 Åµm/m-Å°C | 43.0 Åµin/in-Å°F | |

| CTE, linear, Parallel to Flow Thermal Properties | Metric @Temperature -40.0 - 40.0 Â°C | English @Temperature -40.0 - 104 Â°F | ASTM E 831 Comments |
|---|--|---|------------------------|
| CTE, linear, Transverse to Flow | 81.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 45.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| Deflection Temperature at 0.46 MPa (66 psi) | 81.0 Â°C @Thickness 3.20 mm | 178 Â°F @Thickness 0.126 in | unannealed; ASTM D 648 |
| | 85.0 Â°C @Thickness 6.40 mm | 185 Â°F @Thickness 0.252 in | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 73.0 Â°C @Thickness 3.20 mm | 163 Â°F @Thickness 0.126 in | unannealed; ASTM D 648 |
| | 76.0 Â°C @Thickness 6.40 mm | 169 Â°F @Thickness 0.252 in | unannealed; ASTM D 648 |
| Vicat Softening Point | 90.0 Â°C | 194 Â°F | Rate B/50; ASTM D 1525 |
| UL RTI, Electrical | 65.0 Â°C | 149 Â°F | UL 746B |
| UL RTI, Mechanical with Impact | 65.0 Â°C | 149 Â°F | UL 746B |
| UL RTI, Mechanical without Impact | 65.0 Â°C | 149 Â°F | UL 746B |
| Flammability, UL94 | V-0 @Thickness 2.54 mm | V-0 @Thickness 0.100 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-------------|-------------|------------------------------|
| Comparative Tracking Index | 250 - 400 V | 250 - 400 V | PLC code 2; UL 746A |
| Hot Wire Ignition, HWI | 30 - 60 sec | 30 - 60 sec | PLC code 2; UL 746A |
| High Amp Arc Ignition, HAI | >= 120 arcs | >= 120 arcs | surface, PLC code 0; UL 746A |

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