

SABIC Innovative Plastics NORYL TN300 PPE+PS

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

Material Notes:

PPE+PS. Transparent. High heat. Color Limited. Injection molding. Laser-Transmission welding applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-TN300-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm @Thickness 3.20 mm	0.0070 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	31 g/10 min @Load 5.00 kg, Temperature 300 Â°C	31 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength at Break	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	77.0 MPa	11200 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	8.1 %	8.1 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.73 GPa	396 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.82 GPa	409 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	$75.1 \text{ }^{\circ}\text{C}/\text{m}-\text{}^{\circ}\text{C}$ @Temperature -40.0 - 40.0 $^{\circ}\text{C}$	$25.2 \text{ }^{\circ}\text{F}/\text{in}-\text{}^{\circ}\text{F}$ @Temperature -40.0 - 104 $^{\circ}\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	145 $^{\circ}\text{C}$ @Thickness 3.20 mm	293 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 $^{\circ}\text{C}$ @Thickness 3.20 mm	266 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	161 $^{\circ}\text{C}$	322 $^{\circ}\text{F}$	Rate B/50; ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.581	1.581	ASTM D542
Haze	7.3 % @Thickness 2.54 mm	7.3 % @Thickness 0.100 in	ASTM D1003
Transmission, Visible	83.1 %	83.1 %	2.54 mm; ASTM D1003

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