

SABIC Innovative Plastics Noryl TN240 PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. Transparent. Good flow. Scratch resistant. Injection molding. Suitable for housewares, personal care and small appliance 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-TN240-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 280 Å°C	8.0 g/10 min @Load 11.0 lb, Temperature 536 Å°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D 785
Tensile Strength at Break	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	10 %	10 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	3.4 %	3.4 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	3.15 GPa	457 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.82 GPa	409 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.260 J/cm @Temperature 23.0 Å°C	0.487 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
Izod Impact, Unnotched	2.40 J/cm @Temperature 23.0 Å°C	4.50 ft-lb/in @Temperature 73.4 Å°F	ASTM D 4812
Impact Test	3.00 J @Temperature 23.0	2.21 ft-lb	Instrumented Impact Total Energy; ASTM D 3763

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.8 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	16.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	18.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	10.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	111 Å°C @Thickness 3.20 mm	232 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C @Thickness 3.20 mm	208 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	123 Å°C	253 Å°F	Rate B/50; ASTM D 1525

Optical Properties	Metric	English	Comments
Refractive Index	1.588	1.588	ASTM D 542
Haze	6.6 % @Thickness 2.54 mm	6.6 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	83.9 % @Thickness 2.54 mm	83.9 % @Thickness 0.100 in	ASTM D 1003

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