

SABIC Innovative Plastics NORYL PN275 PPE+PS

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

Material Notes:

PPE+PS with low mineral loading. High heat, platable applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PN275-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.3 g/10 min @Load 5.00 kg, Temperature 280 Â°C	5.3 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	34 %	34 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.6 %	6.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.13 GPa	309 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	89.0 MPa	12900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.08 J/cm	3.90 ft-lb/in	ASTM D256
Dart Drop, Total Energy	44.0 J @Temperature 23.0 Â°C	32.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	55.8 Âµm/m-Â°C	31.0 Âµin/in-Â°F	

CTE linear, Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C @Thickness 3.20 mm	248 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	151 Â°C	304 Â°F	Rate B/50; ASTM D1525

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