

SABIC Innovative Plastics NORYL PX500 PPE (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Noryl PX500 is an unfilled modified polyphenylene ether resin capable of multiple conversion routes. This resin is designed for lower odor during conversion than many standard modified PPE resins. Noryl PX500 provides an exceptional balance of high heat performance and dimensional stability with flow and may be an excellent material candidate for IC tray applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX500-PPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.23 %	0.23 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.0090 cm/cm @Thickness 3.20 mm	0.0080 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.0090 cm/cm @Thickness 3.20 mm	0.0080 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	21 g/10 min @Load 5.00 kg, Temperature 320 ^o C	21 g/10 min @Load 11.0 lb, Temperature 608 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	30S reading; ASTM D2240
Tensile Strength at Break	10.0 MPa	1450 psi	50 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527
	71.0 MPa	10300 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	5.1 %	5.1 %	50 mm/min; ISO 527
	35 %	35 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.1 %	5.1 %	50 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Yield Strength	110 MPa	16000 psi	2 mm/min; ISO 178
Flexural Modulus	2.53 GPa	367 ksi	2 mm/min; ISO 178
	2.59 GPa	376 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	58.0 J @Temperature 23.0 Â°C	42.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	71.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	79.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	43.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	79.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	43.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	169 Â°C	336 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	170 Â°C @Thickness 3.20 mm	338 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	192 Â°C	378 Â°F	Rate B/50; ASTM D1525
	192 Â°C	378 Â°F	Rate B/50; ISO 306
	193 Â°C	379 Â°F	Rate B/120; ISO 306

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