

SABIC Innovative Plastics NORYL PX6120 PPE+PS

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

Material Notes:

Noryl PX6120 is an unfilled material with good flow, high Impact and chemical resistance against cleaners. Noryl PX6120 is developed for personal care applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX6120-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11.9 g/10 min @Load 5.00 kg, Temperature 280 Â°C	11.9 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 280 Â°C	12 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	50 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	50 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	39 %	39 %	50 mm/min; ISO 527
	40.8 %	40.8 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	2.4 %	2.4 %	50 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.43 GPa	352 ksi	1 mm/min; ISO 527
	2.67 GPa	387 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	73.0 MPa	10600 psi	2 mm/min; ISO 178
	78.0 MPa	11300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.26 GPa	328 ksi	2 mm/min; ISO 178
	2.33 GPa	338 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.67 J/cm	6.88 ft-lb/in	ASTM D256
	2.11 J/cm	3.95 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	24.0 kJ/mÂ²	11.4 ft-lb/inÂ²	80*10*4; ISO 180/1A
	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	52.0 J	38.4 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Dart Drop, Total Energy			

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.2 Âµm/m-Â°C	51.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	93.2 Âµm/m-Â°C	51.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	95.6 Âµm/m-Â°C	53.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	95.6 Âµm/m-Â°C	53.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa	109 Â°C	228 Â°F	

(264 psi) Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	126 Â°C	259 Â°F	Rate B/50; ASTM D1525
	126 Â°C	259 Â°F	Rate B/50; ISO 306
	129 Â°C	264 Â°F	Rate B/120; ISO 306

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