

SABIC Innovative Plastics NORYL PX1007 PPE+PS

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

Material Notes:

Noryl* PX1007 is an unfilled non-chlorinated, non-brominated flame retardant PPE/HIPS grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX1007-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	22 g/10 min @Load 5.00 kg, Temperature 250 ^o C	22 g/10 min @Load 11.0 lb, Temperature 482 ^o F	ASTM D1238
Melt Index of Compound	22 g/10 min @Load 5.00 kg, Temperature 250 ^o C	22 g/10 min @Load 11.0 lb, Temperature 482 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D638
	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	Type I, 50 mm/min; ASTM D638
	20 %	20 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
	2.50 GPa	363 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
	2.60 GPa	377 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256
	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Notched (ISO)	7.00 kJ/mÅ²	3.33 ft-lb/inÅ²	80*10*4; ISO 180/1A
	4.00 kJ/mÅ²	1.90 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	0.700 J/cmÅ²	3.33 ft-lb/inÅ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	85.0 Å°C	185 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	72.0 Å°C	162 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	72.0 Å°C Metric	162 Å°F English	Comments Unfinished, ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	93.0 Å°C	199 Å°F	Rate B/50; ASTM D1525
	93.0 Å°C	199 Å°F	Rate B/50; ISO 306
	96.0 Å°C	205 Å°F	Rate B/120; ISO 306
UL RTI, Electrical	95.0 Å°C	203 Å°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical without Impact	95.0 Å°C	203 Å°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 2.50 mm	@Thickness 0.0984 in	

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