

SABIC Innovative Plastics NORYL EXNL0143 PPE+PS

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

Material Notes:

Noryl PX1736 Resin is a blend of PPE and PS, that provides high strength, increased heat resistance, and translucency. The material has melt strenght suitable for Extrusion and Blow Molding applications. Typical applications include High Performance Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EXNL0143-PPEPS.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	0.0500 %	0.0500 %	23Â°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	25.1 g/10 min @Load 5.00 kg, Temperature 300 Â°C	25.1 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238
Melt Index of Compound	26 g/10 min @Load 5.00 kg, Temperature 300 Â°C	26 g/10 min @Load 11.0 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
	72.0 MPa	10400 psi	50 mm/min; ISO 527
Tensile Strength, Yield	79.0 MPa	11500 psi	Type I, 50 mm/min; ASTM D638
	79.0 MPa	11500 psi	50 mm/min; ISO 527
Elongation at Break	5.2 %	5.2 %	Type I, 50 mm/min; ASTM D638
	7.6 %	7.6 %	50 mm/min; ISO 527
Elongation at Yield	4.7 %	4.7 %	50 mm/min; ISO 527
Tensile Modulus	2.78 GPa	403 ksi	5 mm/min; ASTM D638
	3.11 GPa	451 ksi	1 mm/min; ISO 527

Flexural Yield Strength Mechanical Properties	123 MPa Metric	17800 psi English	2 mm/min; ISO 178 Comments
	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.94 GPa	426 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.97 GPa	431 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D256
	0.270 J/cm	0.506 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 Âµm/m-Â°C	43.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	79.0 Âµm/m-Â°C	43.9 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	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.0 Âµm/m-Â°C	44.4 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 (264 psi)	123 Â°C	253 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	122 Â°C	252 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Vicat Softening Point Thermal Properties	141 Â°C Metric	286 Â°F English	Rate B/50; ASTM D1525 Comments
	141 Â°C	286 Â°F	Rate B/50; ISO 306
	142 Â°C	288 Â°F	Rate B/120; ISO 306

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