

SABIC Innovative Plastics NORYL EXNL0357 PPE+PS

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EXNL0357-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 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 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	9.5 g/10 min @Load 5.00 kg, Temperature 280 ^o C	9.5 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	9.0 g/10 min @Load 5.00 kg, Temperature 280 ^o C	9.0 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
	53.0 MPa	7690 psi	50 mm/min; ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
	64.0 MPa	9280 psi	50 mm/min; ISO 527
Elongation at Break	20.7 %	20.7 %	50 mm/min; ISO 527
	29.3 %	29.3 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.9 %	4.9 %	50 mm/min; ISO 527
	5.1 %	5.1 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	5 mm/min; ASTM D638
	2.90 GPa	421 ksi	1 mm/min; ISO 527
			1.3 mm/min, 50 mm span; ASTM

Flexural Yield Strength Mechanical Properties	103 MPa Metric	14900 psi English	D790 Comments
	107 MPa	15500 psi	2 mm/min; ISO 178
Flexural Modulus	2.62 GPa	380 ksi	2 mm/min; ISO 178
	2.63 GPa	381 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.69 J/cm	3.17 ft-lb/in	ASTM D256
	0.920 J/cm	1.72 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	34.0 J	25.1 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.2 Âµm/m-Â°C	39.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	73.9 Âµm/m-Â°C	41.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	71.2 Âµm/m-Â°C	39.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	73.9 Âµm/m-Â°C	41.1 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 (264 psi)	116 Â°C	241 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	114 Â°C	237 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	136 Â°C	277 Â°F	Rate B/50; ASTM D1525

Thermal Properties	Metric	English	Comments
	138 Å°C	280 Å°F	Rate B/50; ISO 306
	138 Å°C	280 Å°F	Rate B/120; ISO 306

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