

SABIC Innovative Plastics NORYL FXN4020H PPE+HIPS

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

Material Notes:

high gloss Noryl

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FXN4020H-PPEHIPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption at Saturation	0.060 %	0.060 %	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 g/10 min @Load 5.00 kg, Temperature 250 °C	25 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238
	25 g/10 min @Load 2.16 kg, Temperature 280 °C	25 g/10 min @Load 4.76 lb, Temperature 536 °F	ASTM D1238
Melt Index of Compound	25 g/10 min @Load 2.16 kg, Temperature 280 °C	25 g/10 min @Load 4.76 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	50 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	50 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	4.4 %	4.4 %	50 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	50 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric Pa	English	Comments ASTM D638
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
	2.73 GPa	396 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	0.200 J/cm @Temperature -30.0 Â°C	0.375 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
	4.00 kJ/mÂ² @Temperature -30.0 Â°C	1.90 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	30.0 J @Temperature 23.0 Â°C	22.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 Âµm/m-Â°C	42.8 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	77.0 Âµm/m-Â°C	42.8 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	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	
Deflection Temperature at 1.8 MPa (264 psi)	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	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C	167 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	75.0 Â°C	167 Â°F	

Thermal Properties	Metric @Thickness 3.20 mm	English @Thickness 0.126 in	unannealed; ASTM D648 Comments
	83.0 Â°C @Thickness 6.40 mm	181 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	96.0 Â°C	205 Â°F	Rate B/50; ASTM D1525
	96.0 Â°C	205 Â°F	Rate B/50; ISO 306
	98.0 Â°C	208 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94 by SABIC-IP
	V-0 @Thickness 2.50 mm	V-0 @Thickness 0.0984 in	UL 94 by SABIC-IP

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