

SABIC Innovative Plastics NORYL GTX EXNX0080 PPE+PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Sulfide (PPS)

Material Notes:

Noryl APS* EXNX0080 resin is a glass filled, high performance blend of PPE/PPS that exhibits an excellent balance of high-heat resistance, strength, flame retardant, and conductivity. This grade can be electro-statically painted or powder coated without the need for a conductive primer. The resin is injection moldable and only available in black.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-EXNX0080-PPEPPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Density	1.62 g/cc	0.0585 lb/in ³	ISO 1183
Water Absorption at Saturation	0.020 %	0.020 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0080 cm/cm @Thickness 3.20 mm	0.0030 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 300 Â°C	16 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 2.16 kg, Temperature 300 Â°C	10 g/10 min @Load 4.76 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.0 MPa	11500 psi	Type I, 5 mm/min; ASTM D638
	89.0 MPa	12900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	79.0 MPa	11500 psi	Nominal Stress, yld, Type I, 5 mm/min; ASTM D638
	89.0 MPa	12900 psi	5 mm/min; ISO 527
Elongation at Break	0.60 %	0.60 %	Type I, 5 mm/min; ASTM D638
	0.60 %	0.60 %	5 mm/min; ISO 527
Elongation at Yield	0.60 %	0.60 %	Type I, 5 mm/min; ASTM D638
	0.60 %	0.60 %	5 mm/min; ISO 527
Tensile Modulus	14.99 GPa	2174 ksi	1 mm/min; ISO 527

Mechanical Properties	16.3 GPa Metric	2360 ksi English	5 mm/min: ASTM D638 Comments
Flexural Yield Strength	118 MPa	17100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.74 GPa	1848 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.64 GPa	1978 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D256
	0.370 J/cm	0.693 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	34.0 kJ/mÂ²	16.2 ft-lb/inÂ²	80*10*4; ISO 180/1A
	34.0 kJ/mÂ²	16.2 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	3.40 J/cmÂ²	16.2 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	27.0 Âµm/m-Â°C	15.0 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	49.0 Âµm/m-Â°C	27.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	49.0 Âµm/m-Â°C	27.2 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)	229 Â°C	444 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	234 Â°C	453 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Vicat Softening Point Thermal Properties	231 Â°C Metric	448 Â°F English	Rate B/50: ASTM D1525 Comments
	231 Â°C	448 Â°F	Rate B/120; ISO 306
	233 Â°C	451 Â°F	Rate B/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	25000 ohm-cm	25000 ohm-cm	ASTM D257

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