

SABIC Innovative Plastics NORYL PVX516 PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

PREVEX* PVX516 resin is a high flow, non FR grade, 110 C HDT

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PVX516-PPE.php

Physical Properties	Metric	English	Comments
Water Absorption at Saturation	0.070 %	0.070 %	ISO 62
Viscosity	145000 cP	145000 cP	Melt Viscosity, 280Â°C, 1500 sec-1; ISO 11443
Melt Index of Compound	16 g/10 min @Load 5.00 kg, Temperature 280 Â°C	16 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	Type I, 50 mm/min; ASTM D638
	42.0 MPa	6090 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	23 %	23 %	Type I, 50 mm/min; ASTM D638
	28 %	28 %	50 mm/min; ISO 527
Elongation at Yield	2.4 %	2.4 %	50 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.42 GPa	351 ksi	1 mm/min; ISO 527
	2.47 GPa	358 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.36 GPa	342 ksi	2 mm/min; ISO 178
	2.54 GPa	368 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256

Mechanical Properties	0.990 J/cm Metric	1.85 ft-lb/in English	Comments ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	12.0 J	8.85 ft-lb	ASTM D3763
Dart Drop, Total Energy	@Temperature -40.0 °C	@Temperature -40.0 °F	
	24.0 J	17.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	120 °C	248 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 °C	217 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	110 °C	230 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	124 °C	255 °F	Rate B/50; ASTM D1525

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