

SABIC Innovative Plastics NORYL PVX524 PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

PREVEX* PVX524 resin is a high flow, non FR grade, 100 C HDT

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PVX524-PPE.php

Physical Properties	Metric	English	Comments
Water Absorption at Saturation	0.060 %	0.060 %	ISO 62
Viscosity	110000 cP	110000 cP	Melt Viscosity, 280Â°C, 1500 sec-1; ISO 11443
Melt Index of Compound	24 g/10 min @Load 5.00 kg, Temperature 280 Â°C	24 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	37.0 MPa	5370 psi	50 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	32 %	32 %	Type I, 50 mm/min; ASTM D638
	48 %	48 %	50 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	50 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.34 GPa	339 ksi	1 mm/min; ISO 527
	2.41 GPa	350 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	64.0 MPa	9280 psi	2 mm/min; ISO 178
	66.0 MPa	9570 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.29 GPa	332 ksi	2 mm/min; ISO 178
	2.46 GPa	357 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.00 J/cm	3.75 ft-lb/in	ASTM D256

Mechanical Properties	0.940 J/cm Metric	1.76 ft-lb/in English	Comments ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 180/1A
	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact Unnotched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@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	6.00 J	4.43 ft-lb	ASTM D3763
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	17.0 J	12.5 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 Â°C	226 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	111 Â°C	232 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	93.0 Â°C	199 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	102 Â°C	216 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	113 Â°C	235 Â°F	Rate B/50; ASTM D1525

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