

SABIC Innovative Plastics NORYL PVX0800 PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

NORYL* PVX0800 resin is a high flow, V0 = 1.5 mm grade, suitable for a variety of electronics applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PVX0800-PPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	23Â°C / 50% RH; ISO 62
Viscosity	98000 cP	98000 cP	Melt Viscosity, 280Â°C, 1500 sec-1; ISO 11443
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 230 Â°C	@Load 11.0 lb, Temperature 446 Â°F	
Melt Index of Compound	22 g/10 min	22 g/10 min	MVR [cm^3/10 min]; ISO 1133
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	
	47 g/10 min	47 g/10 min	MVR [cm^3/10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	50 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	50 mm/min; ISO 527
	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	15 %	15 %	Type I, 50 mm/min; ASTM D638
	26.6 %	26.6 %	50 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	50 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.58 GPa	374 ksi	1 mm/min; ISO 527
	2.67 GPa	387 ksi	50 mm/min; ASTM D638

Flexural Yield Strength Mechanical Properties	83.0 MPa Metric	12000 psi English	2 mm/min; ISO 178 Comments
	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790
	88.0 MPa	12800 psi	6.4 mm; ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	2 mm/min; ISO 178
	2.70 GPa	392 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.70 GPa	392 ksi	6.4 mm; ASTM D790
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 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 °C	@Temperature -22.0 °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 °C	@Temperature -22.0 °F	
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	22.1 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)	88.0 °C	190 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	92.0 °C	198 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	78.0 °C	172 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	82.0 °C	180 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Vicat Softening Point	98.0 Â°C	208 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Comparative Tracking Index	250 V	250 V	IEC 60112
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746A

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China