

SABIC Innovative Plastics NORYL PVX0901 PPE+PS (Asia Pacific)

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

Material Notes:

Multi purpose V1 grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PVX0901-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.24 %	0.24 %	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	50 g/10 min @Load 5.00 kg, Temperature 280 Â°C	50 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	52 g/10 min @Load 5.00 kg, Temperature 280 Â°C	52 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	44.0 MPa	6380 psi	50 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	50 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	6.6 %	6.6 %	Type I, 50 mm/min; ASTM D638
	8.8 %	8.8 %	50 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	Type I, 50 mm/min; ASTM D638
	3.3 %	3.3 %	50 mm/min; ISO 527
Tensile Modulus	2.44 GPa	354 ksi	1 mm/min; ISO 527
	2.50 GPa	363 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	95.0 MPa	13800 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.45 GPa	355 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.75 J/cm	3.28 ft-lb/in	ASTM D256
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	80*10*4; ISO 180/1A
	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	37.0 J	27.3 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.0 Âµm/m-Â°C	41.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	75.0 Âµm/m-Â°C	41.7 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	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	81.0 Âµm/m-Â°C	45.0 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)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 Â°C	198 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	92.0 Â°C Metric	198 Â°F English	Comments UNFINISHED; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	109 Â°C	228 Â°F	Rate B/120; ISO 306
	116 Â°C	241 Â°F	Rate B/50; ASTM D1525
	116 Â°C	241 Â°F	Rate B/50; ISO 306
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94 by SABIC-IP

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