

SABIC Innovative Plastics NORYL PX9406P PPE+PS (Europe-Africa-Middle East)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX9406P-PPEPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Melt Index of Compound	13 g/10 min	13 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 260 Â°C	@Load 22.0 lb, Temperature 500 Â°F	
	13 g/10 min	13 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	
	33 g/10 min	33 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 300 Â°C	@Load 11.0 lb, Temperature 572 Â°F	
	41 g/10 min	41 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 280 Â°C	@Load 22.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	50 mm/min; ISO 527
Tensile Strength, Yield	71.0 MPa	10300 psi	50 mm/min; ISO 527
Elongation at Break	8.0 %	8.0 %	50 mm/min; ISO 527
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	2.51 GPa	364 ksi	1 mm/min; ISO 527
Flexural Yield Strength	109 MPa	15800 psi	2 mm/min; ISO 178
Flexural Modulus	2.51 GPa	364 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0	@Temperature -22.0	

Mechanical Properties	°C Metric	°F English	Comments
Charpy Impact Unnotched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	44.4 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	44.4 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
Hot Ball Pressure Test	125 Å°C	257 Å°F	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	117 Å°C	243 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	140 Å°C	284 Å°F	Rate B/120; ISO 306
UL RTI, Electrical	110 Å°C	230 Å°F	UL 746B
UL RTI, Mechanical with Impact	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical without Impact	110 Å°C	230 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	UL 94
	5VA @Thickness 2.50 mm	5VA @Thickness 0.0984 in	UL 94
Glow Wire Test	750 Å°C	1380 Å°F	IEC 60695-2-13
	775 Å°C	1430 Å°F	IEC 60695-2-13
	775 Å°C	1430 Å°F	IEC 60695-2-13
	960 Å°C @Thickness 0.750 mm	1760 Å°F @Thickness 0.0295 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL 746A
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

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