

SABIC Innovative Plastics NORYL PX9406P PPE+HIPS (Asia Pacific)

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

Material Notes:

Nonbrominated, nonchlorinated, flame retarded. Improved productivity and reliability. 125dc HDT. UL94 V-0 rated. Electrical applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX9406P-PPEHIPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Viscosity	278000 cP	278000 cP	Melt Viscosity, 280 ^o C, 1500 sec-1; ISO 11443
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	3.9 g/10 min @Load 10.0 kg, Temperature 250 ^o C	3.9 g/10 min @Load 22.0 lb, Temperature 482 ^o F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 ^o C	10 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133
	23 g/10 min @Load 5.00 kg, Temperature 300 ^o C	23 g/10 min @Load 11.0 lb, Temperature 572 ^o F	MVR [cm ³ /10 min]; ISO 1133
	27 g/10 min @Load 10.0 kg, Temperature 280 ^o C	27 g/10 min @Load 22.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	63.0 MPa	9140 psi	SABIC - Japan Method
	73.0 MPa	10600 psi	50 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	50 mm/min; ISO 527
	85 %	85 %	SABIC - Japan Method
Flexural Strength	99.0 MPa	14400 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	103 MPa	15100 psi	2 mm/min; ISO 178
Flexural Modulus	2.35 GPa	341 ksi	ASTM D790
	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.66 J/cm	3.11 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	TMA
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Parallel to Flow	66.3 Åµm/m-Å°C	36.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	75.8 Åµm/m-Å°C	42.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C @Thickness 6.40 mm	277 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	117 Â°C	243 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 Â°C @Thickness 6.40 mm	257 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	142 Â°C	288 Â°F	Rate B/120; ISO 306
	151 Â°C	304 Â°F	Rate A/120; ISO 306
Flammability, UL94	V-2 @Thickness 0.400 mm	V-2 @Thickness 0.0157 in	UL 94
	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

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	2.8 @Frequency 50.0 - 60.0 Hz	2.8 @Frequency 50.0 - 60.0 Hz	ASTM D150

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