

SABIC Innovative Plastics NORYL PX9406P PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

NORYL* PX9406P resin is an FR (non-halogenated) grade potentially suitable for a variety of electronics applications. RTI (impact) = 105 C. F1 listed in BK color.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX9406P-PPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 Â°C	10 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	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	76.0 MPa	11000 psi	Type I, 50 mm/min; ASTM D638
	76.0 MPa	11000 psi	50 mm/min; ISO 527
Elongation at Break	9.4 %	9.4 %	50 mm/min; ISO 527
	9.7 %	9.7 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.7 %	4.7 %	Type I, 50 mm/min; ASTM D638
	4.7 %	4.7 %	50 mm/min; ISO 527
Tensile Modulus	2.73 GPa	396 ksi	1 mm/min; ISO 527
	2.80 GPa	406 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	113 MPa	16400 psi	1.3 mm/min, 50 mm span; ASTM D790
	114 MPa	16500 psi	2 mm/min; ISO 178
	114 MPa	16500 psi	6.4 mm; ASTM D790
Flexural Modulus	2.58 GPa	374 ksi	2 mm/min; ISO 178
	2.84 GPa	412 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.84 GPa	412 ksi	6.4 mm; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	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	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, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	52.0 J	38.4 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	118 Â°C	244 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	118 Â°C	244 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	122 Â°C	252 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	140 Â°C	284 Â°F	Rate B/120; ISO 306
	150 Â°C	302 Â°F	
UL RTI, Electrical	110 Â°C	230 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	110 Â°C	230 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flammability, UL94	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Flammability, UL94	5VA	5VA	

Thermal Properties	Metric @ Thickness 2.50 mm	English @ Thickness 0.0984 in	UL 94 by SABIC-IP Comments
Glow Wire Test	750 Â°C	1380 Â°F	IEC 60695-2-13
	775 Â°C	1430 Â°F	IEC 60695-2-13
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	IEC 60112
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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