

SABIC Innovative Plastics NORYL PX9406K PPE+HIPS (Asia Pacific)

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

Material Notes:

NORYL* PX9406K resin may be suitable for consumer electronics applications. Flame retardant used is non-halogenated. UL94 V0 at 1.5 mm, 5VB at 2 mm, and 5VA at 2.5 mm. RTI (impact) = 105 C

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX9406K-PPEHIPS-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
Viscosity	250000 cP	250000 cP	Melt Viscosity, 280 ^o C, 1500 sec-1; ISO 11443
	390000 cP	390000 cP	Melt Viscosity, 260 ^o C, 1500 sec-1; ISO 11443
	525000 cP	525000 cP	Melt Viscosity, 250 ^o C, 1500 sec-1; ISO 11443
Melt Index of Compound	7.0 g/10 min	7.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 250 ^o C	@Load 22.0 lb, Temperature 482 ^o F	
	11 g/10 min	11 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 ^o C	@Load 11.0 lb, Temperature 536 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
	52.0 MPa	7540 psi	50 mm/min; ISO 527
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
	67.0 MPa	9720 psi	50 mm/min; ISO 527
Elongation at Break	45 %	45 %	Type I, 50 mm/min; ASTM D638
	55 %	55 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
	5.7 %	5.7 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	1 mm/min; ISO 527

Mechanical Properties	2.70 GPa Metric	392 ksi English	50 mm/min; ASTM D638 Comments
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
	101 MPa	14600 psi	6.4 mm; ASTM D790
	104 MPa	15100 psi	2 mm/min; ISO 178
Flexural Modulus	2.42 GPa	351 ksi	2 mm/min; ISO 178
	2.65 GPa	384 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.65 GPa	384 ksi	6.4 mm; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	80*10*4; ISO 180/1A
	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.30 J/cmÂ²	6.19 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.500 J/cmÂ²	2.38 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	55.0 J	40.6 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	128 Â°C	262 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	130 Â°C	266 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	111 Â°C	232 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	113 Â°C	235 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	121 Â°C Metric	250 Â°F English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	134 Â°C	273 Â°F	Rate B/120; ISO 306
	144 Â°C	291 Â°F	Rate A/120; ISO 306
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 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	UL 94 by SABIC-IP
	@Thickness 2.50 mm	@Thickness 0.0984 in	
Glow Wire Test	800 Â°C	1470 Â°F	IEC 60695-2-13
	800 Â°C	1470 Â°F	IEC 60695-2-13
	800 Â°C	1470 Â°F	IEC 60695-2-13
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+17 ohm-cm	1.40e+17 ohm-cm	ASTM D257
Dielectric Strength	49.0 kV/mm	1240 kV/in	in air; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Comparative Tracking Index	250 V	250 V	IEC 60112
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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

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