

SABIC Innovative Plastics Noryl PX5622 PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. Non-brominated, non-chlorinated FR system. Good flow and surface aesthetics. UL94 V0/5VA/5VB. RTI Elec/Imp/Str 65. Suitable for E/E market indoor/outdoor applications. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-PX5622-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D 792
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	4.2 g/10 min @Load 2.16 kg, Temperature 230 Â°C	4.2 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D 1238
	10 g/10 min @Load 3.80 kg, Temperature 230 Â°C	10 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D 1238
	32.1 g/10 min @Load 10.0 kg, Temperature 220 Â°C	32.1 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	30 %	30 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	1.65 GPa	239 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	74.0 MPa	10700 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	2.20 GPa	319 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	1.33 J/cm @Temperature 23.0 Â°C	2.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256

Mechanical Properties Impact Test	Metric 37.0 J	English 27.3 ft-lb	Comments Unmodified Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	93.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	52.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C @Thickness 6.40 mm	180 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	72.0 Â°C @Thickness 6.40 mm	162 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	85.0 Â°C	185 Â°F	Rate B/50; ASTM D 1525
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.49 mm	V-0 @Thickness 0.0587 in	UL 94
	5VB @Thickness 2.41 mm	5VB @Thickness 0.0949 in	UL 94
	5VA @Thickness 3.22 mm	5VA @Thickness 0.127 in	UL 94
Oxygen Index	36.5 %	36.5 %	LOI; ASTM D 2863

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC code 2; UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC code 0; UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	surface, PLC code 2; UL 746A

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