

SABIC Innovative Plastics NORYL PN235 PPE+PS

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

Material Notes:

Plating grade, primarily automotive applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PN235-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa	5370 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	72 %	72 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	55.0 MPa	7980 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	1.82 GPa	264 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D256
	1.33 J/cm	2.49 ft-lb/in	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.6 Âµm/m-Â°C	42.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C	234 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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