

SABIC Innovative Plastics Noryl EN212 PPE+PS

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

Material Notes:

Extrusion grade. 212F (100C) DTUL. UL94 V-1 rated. 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-EN212-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D 792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D 570
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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D 785
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	45 %	45 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	78.0 MPa	11300 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	2.51 GPa	364 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	1.33 J/cm @Temperature -40.0 °C	2.49 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	2.93 J/cm @Temperature 23.0 °C	5.49 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Gardner Impact	6.00 J @Temperature -40.0 °C	4.43 ft-lb @Temperature -40.0 °F	ASTM D 3029
	25.0 J @Temperature -30.0 °C	18.4 ft-lb @Temperature -22.0 °F	ASTM D 3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 µm/m-°C @Temperature -40.0 -	38.0 µin/in-°F @Temperature -40.0 -	ASTM E 831

Thermal Properties	95.0 °C Metric	203 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C @Thickness 6.40 mm	230 °F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C @Thickness 6.40 mm	208 °F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	95.0 °C	203 °F	UL 746B
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical without Impact	95.0 °C	203 °F	UL 746B
Flammability, UL94	V-1 @Thickness 1.49 mm	V-1 @Thickness 0.0587 in	UL 94
	V-0 @Thickness 5.99 mm	V-0 @Thickness 0.236 in	UL 94
Oxygen Index	29.6 %	29.6 %	LOI; ASTM D 2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.65 @Frequency 50.0 - 60.0 Hz	2.65 @Frequency 50.0 - 60.0 Hz	ASTM D 150
Dielectric Strength	15.7 kV/mm @Thickness 3.20 mm	399 kV/in @Thickness 0.126 in	in oil; ASTM D 149
Dissipation Factor	0.00070 @Frequency 50.0 - 60.0 Hz	0.00070 @Frequency 50.0 - 60.0 Hz	ASTM D 150
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	Tungsten, PLC code 7; ASTM D 495
Comparative Tracking Index	400 - 600 V	400 - 600 V	PLC code 1; UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	PLC code 4; UL 746A

Descriptive Properties	Value	Comments
Radiant Panel Listing	YES	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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