

SABIC Innovative Plastics NORYL EN265 PPE+PS

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

Material Notes:

Extrusion grade. 254F (123C) DTUL. UL94 V-1 rated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EN265-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	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
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	99.0 MPa	14400 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D256
	1.33 J/cm	2.49 ft-lb/in	
Gardner Impact	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D256
	4.00 J	2.95 ft-lb	
Gardner Impact	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D3029
	14.0 J	10.3 ft-lb	
Gardner Impact	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D3029
	14.0 J	10.3 ft-lb	

Thermal Properties	Metric	English	Comments
	59.4 Åµm/m-Å°C	33.0 Åµin/in-Å°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature -40.0 - 95.0 Å°C	English @Temperature -40.0 - 209 Å°F	ASTM E 831 Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 Å°C @Thickness 6.40 mm	253 Å°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	110 Å°C	230 Å°F	UL 746B
UL RTI, Mechanical with Impact	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical without Impact	110 Å°C	230 Å°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	29.2 %	29.2 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.69	2.69	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	19.6 kV/mm	498 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.00070	0.00070	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Radiant Panel Listing	RP100	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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