

SABIC Innovative Plastics NORYL ENG265 PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. Suitable for profile extrusion. NSF listed for potable water use in several colors (Standard 61). Low water absorption. Hydrolytic stability. Dimensional stability. Typical applications include tubes for reverse osmosis systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-ENG265-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	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	
Melt Flow	8.4 g/10 min	8.4 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 °C	@Load 11.0 lb, Temperature 536 °F	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 °C	@Load 11.0 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	27 %	27 %	ISO 527
	28 %	28 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.1 %	3.1 %	ISO 527
	3.3 %	3.3 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	5 mm/min; ASTM D638
	2.55 GPa	370 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	95.0 MPa	13600 psi	ISO 178
Flexural Yield Strength	88.0 MPa	12800 psi	2.6 mm/min, 100 mm span; ASTM D790
	89.0 MPa	12900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.45 GPa	355 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.50 GPa	363 ksi	ISO 178
	2.55 GPa	370 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D256
	1.14 J/cm	2.14 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/2C
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Gardner Impact	5.00 J	3.69 ft-lb	ASTM D3029
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	25.0 J	18.4 ft-lb	ASTM D3029
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	39.0 J	28.8 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 95.0 °C	@Temperature -40.0 - 203 °F	
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	137 °C	279 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	126 °C	259 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	137 °C	279 °F	Rate B/50; ISO 306
	141 °C	286 °F	
UL RTI, Electrical	105 °C	221 °F	UL 746B
UL RTI, Mechanical with Impact	90.0 °C	194 °F	UL 746B
UL RTI, Mechanical without Impact	105 °C	221 °F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.65	2.65	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	0.00040	0.00040	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

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