

SABIC Innovative Plastics NORYL RN1300 PPE (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

15% glass/mineral reinforced PPE. Nonchlorinated, nonbrominated, flame-retardant. Black and gray.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-RN1300-PPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0045 cm/cm @Thickness 3.20 mm	0.0030 - 0.0045 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	26.6 g/10 min @Load 1.20 kg, Temperature 300 Å°C	26.6 g/10 min @Load 2.65 lb, Temperature 572 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.9 %	6.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.65 GPa	674 ksi	5 mm/min; ASTM D638
Flexural Strength	165 MPa	23900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.89 GPa	709 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Å°C	4.43 ft-lb @Temperature 73.4 Å°F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	132 $\text{Å}^\circ\text{C}$	270 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
	137 $\text{Å}^\circ\text{C}$	279 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	142 $\text{Å}^\circ\text{C}$	288 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525
UL RTI, Electrical	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	105 $\text{Å}^\circ\text{C}$	221 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical without Impact	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	UL 746B
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 0.760 mm	@Thickness 0.0299 in	
	V-0	V-0	UL 94
	@Thickness 1.52 mm	@Thickness 0.0598 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	\geq 120 sec	\geq 120 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	\geq 150 mm/min	\geq 5.91 in/min	UL 746A

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