

SABIC Innovative Plastics NORYL WCA875 PPE-TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyphenylene Ether/PPO

Material Notes:

Non-halogenated flame retardant Flexible Noryl extrusion grade intended for evaluation in applications such as wire insulation and cable jacket. Excellent flame retardant performance with balanced tensile elongation, capable of VW-1 performance and 105C temperature rating as defined by UL 1581. 87 Shore A hardness. Processing typically conducted on standard extrusion equipment. UL 1581 tests conducted on 2.0mm wire with 0.12mm X 20 stranded copper conductor.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCA875-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Å°C	@Load 22.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	30S reading; ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	Type I, 50 mm/min; ASTM D638
	16.0 MPa	2320 psi	50 mm/min; ISO 527
	26.0 MPa	3770 psi	after 7days @136Å°C; UL 1581
	27.0 MPa	3920 psi	UL 1581
Elongation at Break	170 %	170 %	50 mm/min; ISO 527
	180 %	180 %	Type I, 50 mm/min; ASTM D638
	190 %	190 %	after 7days @136Å°C; UL 1581
	250 %	250 %	UL 1581
Flexural Modulus	0.0400 GPa	5.80 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0400 GPa	5.80 ksi	12.5 mm/min; ISO 178
Heat Distortion	10 %	10 %	UL 1581
	@Load 0.250 kg, Temperature 121 Å°C	@Load 0.551 lb, Temperature 250 Å°F	

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	105 Â°C Metric	221 Â°F English	UL Temperature rating; UL 1581 Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Oxygen Index	29 %	29 %	ISO 4589
Glow Wire Test	800 Â°C	1470 Â°F	IEC 60695-2-13
	960 Â°C @Thickness 3.00 mm	1760 Â°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1e+17 ohm-cm	<= 1e+17 ohm-cm	ASTM D257
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	22.8 kV/mm @Thickness 2.00 mm	579 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0035 @Frequency 1.00e+6 Hz	0.0035 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	146	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	112	ASTM E 662
VW-1	Pass	UL 1581

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