

SABIC Innovative Plastics NORYL WCD915 PPE-TPE (Asia Pacific)

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

Material Notes:

Flexible and non-halogenated flame retardant extrusion grade intended for evaluation in applications such as insulation materials. Flame retardant performance capable of meeting UL 1581 VW-1 requirement. 90C or 105C temperature rating as defined by UL 62 TPE category. 91 Shore A hardness. Processing typically conducted on standard extrusion equipment. UL 1581 tests conducted on 2.0 mm wire with 0.12 mm x 20 stranded copper conductor.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD915-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	9.0 g/10 min	9.0 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	91	91	30S reading; ASTM D2240
Tensile Strength at Break	14.0 MPa	2030 psi	50 mm/min; ISO 527
	15.0 MPa	2180 psi	Type I, 50 mm/min; ASTM D638
	23.0 MPa	3340 psi	after 7days @136Å°C; UL 1581
	24.0 MPa	3480 psi	UL 1581
Elongation at Break	155 %	155 %	50 mm/min; ISO 527
	170 %	170 %	Type I, 50 mm/min; ASTM D638
	230 %	230 %	after 7days @136Å°C; UL 1581
	265 %	265 %	UL 1581
Flexural Modulus	0.0700 GPa	10.2 ksi	12.5 mm/min; ISO 178
	0.100 GPa	14.5 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	5.0 %	5.0 %	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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Brittleness Temperature Thermal Properties	$\leq -40.0 \text{ }^{\circ}\text{C}$ Metric	$\leq -40.0 \text{ }^{\circ}\text{F}$ English	ASTM D746 Comments
Oxygen Index	28 %	28 %	ISO 4589
Glow Wire Test	825 $^{\circ}\text{C}$	1520 $^{\circ}\text{F}$	IEC 60695-2-13
	960 $^{\circ}\text{C}$ @Thickness 3.00 mm	1760 $^{\circ}\text{F}$ @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.30e+16 ohm-cm	3.30e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.033 @Frequency 1.00e+6 Hz	0.033 @Frequency 1.00e+6 Hz	ASTM D150
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	115	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	49	ASTM E 662
VW-1	Pass	UL 1581

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