

SABIC Innovative Plastics NORYL WCD933 PPE-TPE

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 of HD 21.14 flexible cables. Flame retardant performance capable of meeting EN 50265-2-1 requirement. 93 Shore A hardness. Processing typically conducted on standard extrusion equipment. Wire 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-WCD933-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Melt Flow	8.5 g/10 min	8.5 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Â°C	@Load 22.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	30S reading; ASTM D2240
Tensile Strength at Break	9.00 MPa	1310 psi	Type I, 50 mm/min; ASTM D638
	9.00 MPa	1310 psi	50 mm/min; ISO 527
	15.0 MPa	2180 psi	UL 1581
	15.0 MPa	2180 psi	after 7days @80Â°C; UL 1581
Elongation at Break	130 %	130 %	Type I, 50 mm/min; ASTM D638
	175 %	175 %	50 mm/min; ISO 527
	267 %	267 %	after 7days @136Â°C; UL 1581
	306 %	306 %	UL 1581
Flexural Modulus	0.130 GPa	18.9 ksi	12.5 mm/min; ISO 178
	0.160 GPa	23.2 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	10 %	10 %	UL 1581
	@Load 0.250 kg, Temperature 100 Â°C	@Load 0.551 lb, Temperature 212 Â°F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746

Thermal Properties	Metric	English	Comments
Glow Wire Test	775 Â°C	1430 Â°F	IEC 60695-2-13
	750 Â°C	1380 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	22.9 kV/mm	582 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	56	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	152	ASTM E 662
Vertical Flame Test	PASSES	EN 50265-2-1

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