

SABIC Innovative Plastics NORYL WCD891B PPE-TPE (Europe-Africa-Middle East)

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

Material Notes:

Non-halogenated flame retardant, flexible Noryl resin intended for evaluation in wire and cable applications. Strong flame retardant performance capable of meeting VW-1 and 80°C end use temperature requirements as defined by UL 1581. 89 Shore A hardness. Good processing by using standard extrusion equipment. UL1581 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-WCD891B-PPE-TPE-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	30S reading; ASTM D2240
Tensile Strength at Break	15.0 MPa	2180 psi	50 mm/min; ISO 527
	16.0 MPa	2320 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	UL 1581
	21.0 MPa	3050 psi	after 7days @113Â°C; UL 1581
Elongation at Break	160 %	160 %	after 7days @113Â°C; UL 1581
	170 %	170 %	Type I, 50 mm/min; ASTM D638
	215 %	215 %	UL 1581
Elongation at Yield	140 %	140 %	50 mm/min; ISO 527
Flexural Modulus	0.140 GPa	20.3 ksi	12.5 mm/min; ISO 178
	0.160 GPa	23.2 ksi	12.5 mm/min, 100 mm span; ASTM D790
Tear Strength	7.00 kN/m	39.9 pli	ISO 6383
Heat Distortion	9.0 %	9.0 %	UL 1581
	@Load 0.250 kg, Temperature 100 Â°C	@Load 0.551 lb, Temperature 212 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	UL temperature rating; UL 1581
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 4.00 mm	@Thickness 0.157 in	
Oxygen Index	27 %	27 %	ISO 4589
Glow Wire Test	750 Â°C	1380 Â°F	IEC 60695-2-13
	850 Â°C	1560 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+15 ohm-cm	ASTM D257
Surface Resistance	5.10e+15 ohm	5.10e+15 ohm	ASTM D257
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.040	0.040	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
VW-1	Pass	UL 1581

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