

SABIC Innovative Plastics NORYL WCD835 PPE-TPE (Asia Pacific)

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

Material Notes:

Flexible, low odor, halogen free extrusion grade intended for evaluation in applications such as wire insulation and cable jacket. Flame performance capable of meeting UL VW1 requirements. 80C end use temperature rating and good heat deformation performance as defined by UL 1581. 83 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-WCD835-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 °C	@Load 22.0 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	30S reading; ASTM D2240
Tensile Strength at Break	10.0 MPa	1450 psi	Type I, 50 mm/min; ASTM D638
	10.0 MPa	1450 psi	50 mm/min; ISO 527
	17.0 MPa	2470 psi	UL 1581
	18.0 MPa	2610 psi	after 7days @113°C; UL 1581
Elongation at Break	225 %	225 %	50 mm/min; ISO 527
	250 %	250 %	Type I, 5 mm/min; ASTM D638
	250 %	250 %	after 7days @113°C; UL 1581
	270 %	270 %	UL 1581
Flexural Modulus	0.0300 GPa	4.35 ksi	12.5 mm/min; ISO 178
	0.0400 GPa	5.80 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	20 %	20 %	UL 1581
	@Load 0.250 kg, Temperature 100 °C	@Load 0.551 lb, Temperature 212 °F	

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	80.0 °C Metric	176 °F English	UL temperature rating; UL 1581 Comments
Brittleness Temperature	<= -40.0 °C	<= -40.0 °F	ASTM D746
Glow Wire Test	750 °C	1380 °F	IEC 60695-2-13
	850 °C @Thickness 3.00 mm	1560 °F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+15 ohm-cm	9.00e+15 ohm-cm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
VW-1	Pass	UL 1581

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