

SABIC Innovative Plastics NORYL WCD841U PPE-TPE

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

Material Notes:

Flexible, UV stabilized, halogen free extrusion grade for applications such as wire insulation and cable jacket. Good color stability after UV weathering per ASTM D4459. Light color capable. Flame retardant performance capable of meeting UL VW-1 requirement. 80C application temperature rating as defined by UL 1581. 84 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-WCD841U-PPE-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Melt Flow	23 g/10 min	23 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	84	84	30S reading; ASTM D2240
Tensile Strength at Break	17.0 MPa	2470 psi	50 mm/min; ISO 527
	18.0 MPa	2610 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	UL 1581
	20.0 MPa	2900 psi	after 7days @113Â°C; UL 1581
Elongation at Break	220 %	220 %	50 mm/min; ISO 527
	238 %	238 %	after 7days @113Â°C; UL 1581
	250 %	250 %	Type I, 50 mm/min; ASTM D638
	295 %	295 %	UL 1581
Flexural Modulus	0.0900 GPa	13.1 ksi	12.5 mm/min; ISO 178
	0.0900 GPa	13.1 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	19 %	19 %	UL 1581
	@Load 0.250 kg, Temperature 100 Â°C	@Load 0.551 lb, Temperature 212 Â°F	

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	80.0 Â°C Metric	176 Â°F English	UL temperature rating; UL 1581 Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Oxygen Index	25 %	25 %	ISO 4589
Glow Wire Test	750 Â°C	1380 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	4.20e+15 ohm-cm	4.20e+15 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	21.5 kV/mm @Thickness 2.00 mm	546 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @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	133	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	170	ASTM E 662
VW-1	Pass	UL 1581

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China