

SABIC Innovative Plastics NORYL WCD825 PPE-TPE (Asia Pacific)

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

Material Notes:

Flexible, very low-migration, halogen-free extrusion grade intended for evaluation in applications such as wire insulation and cable jacket. Flame retardant performance capable of meeting UL VW-1 requirement. 80C temperature rating and excellent heat deformation performance as defined by UL 1581. 82 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-WCD825-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Melt Flow	3.2 g/10 min	3.2 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	82	82	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
	20.0 MPa	2900 psi	after 7days @113Â°C; UL 1581
	21.0 MPa	3050 psi	UL 1581
Elongation at Break	190 %	190 %	after 7days @113Â°C; UL 1581
	203 %	203 %	50 mm/min; ISO 527
	220 %	220 %	Type I, 50 mm/min; ASTM D638
	245 %	245 %	UL 1581
Flexural Modulus	0.0200 GPa	2.90 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0200 GPa	2.90 ksi	12.5 mm/min; ISO 178
Heat Distortion	7.0 %	7.0 %	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 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	800 Â°C	1470 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	5.80e+15 ohm-cm	5.80e+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	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0030 @Frequency 1.00e+6 Hz	0.0030 @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	110	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	60	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