

SABIC Innovative Plastics NORYL WCD801AU PPE-TPE (Asia Pacific)

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 and good 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-WCD801AU-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 - 1.17 g/cc	1.09 - 1.17 g/cc	ASTM D792
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Å°C	@Load 11.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	30S reading; ASTM D2240
Tensile Strength at Break	13.0 MPa	1890 psi	50 mm/min; ISO 527
	15.0 MPa	2180 psi	Type I, 50 mm/min; ASTM D638
	20.0 MPa	2900 psi	UL 1581
	21.0 MPa	3050 psi	after 7days @113Å°C; UL 1581
Elongation at Break	105 %	105 %	50 mm/min; ISO 527
	160 %	160 %	Type I, 50 mm/min; ASTM D638
	205 %	205 %	after 7days @113Å°C; UL 1581
	260 %	260 %	UL 1581
Flexural Modulus	0.110 GPa	16.0 ksi	12.5 mm/min; ISO 178
	0.130 GPa	18.9 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	15 %	15 %	UL 1581
	@Load 0.250 kg, Temperature 100 Å°C	@Load 0.551 lb, Temperature 212 Å°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
	850 Â°C @Thickness 3.00 mm	1560 Â°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+15 ohm-cm	2.70e+15 ohm-cm	ASTM D257
Dielectric Constant	2.9 @Frequency 1.00e+6 Hz	2.9 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @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	127	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	133	ASTM E 662
VW-1	Pass	UL 1581

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