

## SABIC Innovative Plastics NORYL WCD851 PPE-TPE (Asia Pacific)

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

### Material Notes:

Flexible, strong flame-retardant, 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 as defined by UL 1581. 85 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-WCD851-PPE-TPE-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD851-PPE-TPE-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Melt Flow	9.5 g/10 min	9.5 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	85	85	30S reading; ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	50 mm/min; ISO 527
	17.0 MPa	2470 psi	Type I, 50 mm/min; ASTM D638
	19.0 MPa	2760 psi	UL 1581
	21.0 MPa	3050 psi	after 7days @113Â°C; UL 1581
Elongation at Break	122 %	122 %	50 mm/min; ISO 527
	147 %	147 %	Type I, 50 mm/min; ASTM D638
	165 %	165 %	after 7days @113Â°C; UL 1581
	200 %	200 %	UL 1581
Flexural Modulus	0.140 GPa	20.3 ksi	12.5 mm/min; ISO 178
	0.150 GPa	21.8 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	17 %	17 %	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	26 %	26 %	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	2.50e+15 ohm-cm	2.50e+15 ohm-cm	ASTM D257
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	26.0 kV/mm @Thickness 2.00 mm	660 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	94	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	76	ASTM E 662
VW-1	Pass	UL 1581

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