

## SABIC Innovative Plastics NORYL WCD801A PPE-TPE

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

### Material Notes:

Flexible, migration-improved, 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. 80 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-WCD801A-PPE-TPE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD801A-PPE-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Flow	11 g/10 min	11 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	80	80	30S reading; ASTM D2240
Tensile Strength at Break	12.0 MPa	1740 psi	Type I, 50 mm/min; ASTM D638
	13.0 MPa	1890 psi	50 mm/min; ISO 527
	16.0 MPa	2320 psi	UL 1581
	17.0 MPa	2470 psi	after 7days @113Â°C; UL 1581
Elongation at Break	119 %	119 %	50 mm/min; ISO 527
	120 %	120 %	Type I, 5 mm/min; ASTM D638
	145 %	145 %	after 7days @113Â°C; UL 1581
	205 %	205 %	UL 1581
Flexural Modulus	0.0800 GPa	11.6 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0900 GPa	13.1 ksi	12.5 mm/min; ISO 178
Heat Distortion	16 %	16 %	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 Å°C Metric	176 Å°F English	UL temperature rating; UL 1581 Comments
Brittleness Temperature	<= -40.0 Å°C	<= -40.0 Å°F	ASTM D746
Flammability, UL94	V-0 @Thickness 4.00 mm	V-0 @Thickness 0.157 in	UL 94
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	750 Å°C	1380 Å°F	IEC 60695-2-13
	650 Å°C @Thickness 3.00 mm	1200 Å°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.80e+15 ohm-cm	3.80e+15 ohm-cm	IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	2.8 @Frequency 50.0 - 60.0 Hz	2.8 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	23.0 kV/mm @Thickness 2.00 mm	584 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.030 @Frequency 50.0 - 60.0 Hz	0.030 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	142	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	95	ASTM E 662
VW-1	Pass	UL 1581

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