

## SABIC Innovative Plastics NORYL WCD861A 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. 86 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-WCD861A-PPE-TPE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD861A-PPE-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 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	86	86	30S reading; ASTM D2240
Tensile Strength at Break	14.0 MPa	2030 psi	50 mm/min; ISO 527
	15.0 MPa	2180 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	UL 1581
	19.0 MPa	2760 psi	after 7days @113Â°C; UL 1581
Elongation at Break	95 %	95 %	50 mm/min; ISO 527
	100 %	100 %	Type I, 50 mm/min; ASTM D638
	135 %	135 %	after 7days @113Â°C; UL 1581
	195 %	195 %	UL 1581
Flexural Modulus	0.150 GPa	21.8 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.190 GPa	27.6 ksi	12.5 mm/min; ISO 178
Tear Strength	7.00 kN/m	39.9 pli	ISO 6383
Heat Distortion	12 %	12 %	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	80.0 Â°C	176 Â°F	UL temperature rating; UL 1581
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0 @Thickness 4.00 mm	V-0 @Thickness 0.157 in	UL 94
Oxygen Index	27 %	27 %	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	5.50e+15 ohm-cm	5.50e+15 ohm-cm	IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	2.9 @Frequency 50.0 - 60.0 Hz	2.9 @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
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	IEC 60250
	0.030 @Frequency 50.0 - 60.0 Hz	0.030 @Frequency 50.0 - 60.0 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	119	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	101	ASTM E 662
VW-1	pass	UL 1581

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