

## SABIC Innovative Plastics NORYL WCD883 PPE-TPE (Europe-Africa-Middle East)

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

### Material Notes:

Flexible and non-halogenated flame retardant extrusion grade intended for evaluation in applications such as jacket of HD 21.14 flexible cables. Flame retardant performance capable of meeting EN 50265-2-1 requirement. 88 Shore A hardness. Processing typically conducted on standard extrusion equipment. Wire 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-WCD883-PPE-TPE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD883-PPE-TPE-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Â°C	@Load 22.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	30S reading; ASTM D2240
Tensile Strength at Break	12.0 MPa	1740 psi	50 mm/min; ISO 527
	13.0 MPa	1890 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	UL 1581
	20.0 MPa	2900 psi	after 7days @80Â°C; UL 1581
Elongation at Break	200 %	200 %	Type I, 50 mm/min; ASTM D638
	200 %	200 %	50 mm/min; ISO 527
	226 %	226 %	after 7days @136Â°C; UL 1581
	248 %	248 %	UL 1581
Flexural Modulus	0.0400 GPa	5.80 ksi	12.5 mm/min; ISO 178
	0.0500 GPa	7.25 ksi	12.5 mm/min, 100 mm span; ASTM D790
Heat Distortion	13 %	13 %	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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Brittleness Temperature Thermal Properties	≤ -40.0 Â°C Metric	≤ -40.0 Â°F English	ASTM D746 Comments
Oxygen Index	34 %	34 %	ISO 4589
Glow Wire Test	775 Â°C	1430 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	5.20e+15 ohm-cm	5.20e+15 ohm-cm	ASTM D257
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	23.7 kV/mm @Thickness 2.00 mm	602 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0020 @Frequency 1.00e+6 Hz	0.0020 @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	71	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	165	ASTM E 662
Vertical Flame Test	PASSES	EN 50265-2-1

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