

## SABIC Innovative Plastics NORYL WCA901 PPE-TPE (Europe-Africa-Middle East)

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

### Material Notes:

Non-Halogenated flame retardant, flexible Noryl resin intended for evaluation in wire and cable applications, capable of meeting VW-1 and 105°C end use temperature requirements as defined by UL 1581. Good processing performance by using 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-WCA901-PPE-TPE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCA901-PPE-TPE-Europe-Africa-Middle-East.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 10.0 kg, Temperature 250 Å°C	@Load 22.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	30S reading; ASTM D2240
Tensile Strength at Break	22.0 MPa	3190 psi	50 mm/min; ISO 527
	23.0 MPa	3340 psi	Type I, 50 mm/min; ASTM D638
	26.0 MPa	3770 psi	UL 1581
	27.0 MPa	3920 psi	after 7days @136Å°C; UL 1581
Elongation at Break	95 %	95 %	50 mm/min; ISO 527
	110 %	110 %	Type I, 50 mm/min; ASTM D638
	127 %	127 %	after 7days @136Å°C; UL 1581
	190 %	190 %	UL 1581
Flexural Modulus	0.390 GPa	56.6 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.390 GPa	56.6 ksi	12.5 mm/min; ISO 178
Tear Strength	13.0 kN/m	74.2 pli	ISO 6383
Heat Distortion	15 %	15 %	UL 1581
	@Load 0.250 kg, Temperature 121 Å°C	@Load 0.551 lb, Temperature 250 Å°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 Â°C	221 Â°F	UL temperature rating; UL 1581
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	UL 94 by SABIC-IP
Oxygen Index	27 %	27 %	ISO 4589
Glow Wire Test	775 Â°C	1430 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	5.10e+15 ohm-cm	5.10e+15 ohm-cm	ASTM D257
Surface Resistance	4.20e+16 ohm	4.20e+16 ohm	ASTM D257
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	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
VW-1	Pass	UL 1581

## Contact Songhan Plastic Technology Co.,Ltd.

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