

## SABIC Innovative Plastics NORYL WCA871A PPE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

### Material Notes:

Flame retardant performance and mechanical properties capable of meeting UL VW-1 requirement and 105C temperature rating as defined UL 1581. UL 1581 tests conducted on 1.0mmD wire with AWG28 conductor.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-WCA871A-PPE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCA871A-PPE-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Å°C	@Load 11.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	30S reading; ASTM D2240
Tensile Strength at Break	18.0 MPa	2610 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	50 mm/min; ISO 527
	27.0 MPa	3920 psi	after 7days @136Å°C; UL 1581
	30.0 MPa	4350 psi	UL 1581
Elongation at Break	130 %	130 %	50 mm/min; ISO 527
	140 %	140 %	Type I, 50 mm/min; ASTM D638
	200 %	200 %	after 7days @136Å°C; UL 1581
	280 %	280 %	UL 1581
Flexural Modulus	0.100 GPa	14.5 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.100 GPa	14.5 ksi	12.5 mm/min; ISO 178
Heat Distortion	20 %	20 %	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 Å°C	221 Å°F	UL temperature rating; UL 1581
Brittleness Temperature			ASTM D746

Thermal Properties	<sup>-40.0</sup> °C Metric	<sup>-40.0</sup> °F English	Comments
Oxygen Index	28 %	28 %	ISO 4589
Glow Wire Test	825 °C	1520 °F	IEC 60695-2-13
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+16 ohm-cm	2.40e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	28.0 kV/mm @Thickness 1.50 mm	711 kV/in @Thickness 0.0591 in	in oil; IEC 60243-1
Dissipation Factor	0.0028 @Frequency 1.00e+6 Hz	0.0028 @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	143	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	67	ASTM E 662

## Contact Songhan Plastic Technology Co.,Ltd.

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