

SABIC Innovative Plastics NORYL WCA871A PPE (Asia Pacific)

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 UL1581. UL1581 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-Asia-Pacific.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 Â°C	@Load 11.0 lb, Temperature 482 Â°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 @136Â°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 @136Â°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 Â°C	@Load 0.551 lb, Temperature 250 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 Â°C	221 Â°F	UL temperature rating; UL 1581
Brittleness Temperature			ASTM D746

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+16 ohm-cm	2.40e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6	2.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	in oil; IEC 60243-1
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Dissipation Factor	0.0028	0.0028	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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

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