

SABIC Innovative Plastics NORYL WCA871 PPE-TPE (Asia Pacific)

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

Material Notes:

Halogen-free flame retardant Flexible Noryl extrusion grade intended for evaluation in applications such as insulation and cable jacket. Flame retardant performance and mechanical properties capable of meeting UL VW-1 requirement and 105C temperature rating as defined by UL 1581. 87 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-WCA871-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Melt Flow	7.5 g/10 min	7.5 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	19.0 MPa	2760 psi	50 mm/min; ISO 527
	20.0 MPa	2900 psi	Type I, 50 mm/min; ASTM D638
	28.0 MPa	4060 psi	UL 1581
	30.0 MPa	4350 psi	after 7days @136Â°C; UL 1581
Elongation at Break	132 %	132 %	50 mm/min; ISO 527
	146 %	146 %	Type I, 50 mm/min; ASTM D638
	200 %	200 %	after 7days @136Â°C; UL 1581
	240 %	240 %	UL 1581
Flexural Modulus	0.110 GPa	16.0 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.110 GPa	16.0 ksi	12.5 mm/min; ISO 178
Tear Strength	7.50 kN/m	42.8 pli	ISO 6383
Heat Distortion	14 %	14 %	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	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	725 Â°C	1340 Â°F	IEC 60695-2-13
	750 Â°C	1380 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+16 ohm-cm	1.90e+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	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.0068	0.0068	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	102	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	66	ASTM E 662
VW-1	Pass	UL 1581

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China