

SABIC Innovative Plastics NORYL WCD795 PPE-TPE (Asia Pacific)

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 cable jacket of UL 62 SVE and NISPE configurations. Flame retardant performance capable of meeting UL 1581 VW-1 requirement. 90C or 105C temperature rating as defined by UL 62 TPE category. 79 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-WCD795-PPE-TPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Melt Flow	11 g/10 min	11 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	79	79	30S reading; ASTM D2240
Tensile Strength at Break	14.0 MPa	2030 psi	Type I, 50 mm/min; ASTM D638
	14.0 MPa	2030 psi	50 mm/min; ISO 527
	21.0 MPa	3050 psi	after 7days @136Å°C; UL 1581
	23.0 MPa	3340 psi	UL 1581
Elongation at Break	215 %	215 %	50 mm/min; ISO 527
	240 %	240 %	Type I, 50 mm/min; ASTM D638
	246 %	246 %	after 7days @136Å°C; UL 1581
	310 %	310 %	UL 1581
Flexural Modulus	0.0300 GPa	4.35 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0300 GPa	4.35 ksi	12.5 mm/min; ISO 178
Heat Distortion	8.0 %	8.0 %	UL 1581
	@Load 0.250 kg, Temperature 121 Å°C	@Load 0.551 lb, Temperature 250 Å°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	27 %	27 %	ISO 4589
Glow Wire Test	800 Â°C	1470 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	1.40e+16 ohm-cm	1.40e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	24.5 kV/mm @Thickness 2.00 mm	622 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0070 @Frequency 1.00e+6 Hz	0.0070 @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	117	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	70	ASTM E 662
VW-1	Pass	UL 1581

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