

SABIC Innovative Plastics NORYL WCV063 PPE+SEBS+Polyolefin (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Styrene-Butadiene

Material Notes:

Flexible, non-halogenated FR, mPPE extrusion grade material for evaluation in automotive wire coating applications requiring ISO6722.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCV063-PPESEBSPolyolefin-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	33 g/10 min	33 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	10S reading; ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	50 mm/min; ISO 527
	28.0 MPa	4060 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527
	28.0 MPa	4060 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
	90 %	90 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	20 %	20 %	50 mm/min; ISO 527
Tensile Modulus	0.690 GPa	100 ksi	1 mm/min; ISO 527
	0.840 GPa	122 ksi	50 mm/min; ASTM D638
Flexural Modulus	0.720 GPa	104 ksi	1.3 mm/min, 50 mm span; ASTM D790
	0.790 GPa	115 ksi	ISO 178
Izod Impact, Notched	5.60 J/cm	10.5 ft-lb/in	ASTM D256
	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	37.0 kJ/mÂ²	17.6 ft-lb/inÂ²	80*10*4; ISO 180/1A
	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D150 ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C @Thickness 3.20 mm	180 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Â°C	151 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	56.0 Â°C @Thickness 3.20 mm	133 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.47 @Frequency 1.00e+9 Hz	2.47 @Frequency 1.00e+9 Hz	ASTM D150
Dissipation Factor	0.0032 @Frequency 1.00e+9 Hz	0.0032 @Frequency 1.00e+9 Hz	ASTM D150

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