

SABIC Innovative Plastics NORYL WCV072 PPE+PP

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polypropylene (PP)

Material Notes:

Flexible, halogen free mPPE extrusion grade material for applications such as automotive wire insulation. Low specific gravity with good flame retardant and very good scrape abrasion resistance. Designed for evaluation in applications requiring ISO6722. 72 Shore D hardness. Processed using standard extrusion equipment.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCV072-PPEPP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.12 %	0.12 %	ISO 62
Melt Flow	13.8 g/10 min @Load 5.00 kg, Temperature 280 ^o C	13.8 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 280 ^o C	13 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
	42.0 MPa	6090 psi	50 mm/min; ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
	44.0 MPa	6380 psi	50 mm/min; ISO 527
Elongation at Break	46 %	46 %	50 mm/min; ISO 527
	83 %	83 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	11 %	11 %	50 mm/min; ISO 527
	15 %	15 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.71 GPa	248 ksi	50 mm/min; ASTM D638
	1.75 GPa	254 ksi	1 mm/min; ISO 527

Flexural Yield Strength Mechanical Properties	53.0 MPa Metric	7690 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	59.0 MPa	8560 psi	2 mm/min; ISO 178
Flexural Modulus	1.55 GPa	225 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.74 GPa	252 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.09 J/cm	5.79 ft-lb/in	ASTM D256
	0.670 J/cm	1.26 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.30 J/cm ²	15.7 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.0 µm/m-°C	46.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	85.0 µm/m-°C	47.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	105 µm/m-°C	58.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	111 µm/m-°C	61.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	Flatw 80*10*4 sp=64mm; ISO 75/af
	92.0 °C	198 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Vicat Softening Point Thermal Properties	114 Â°C Metric	237 Â°F English	Rate B/50; ASTM D1525 Comments
	114 Â°C	237 Â°F	Rate B/50; ISO 306
	117 Â°C	243 Â°F	Rate B/120; ISO 306

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