

SABIC Innovative Plastics NORYL WCV065 PPE+Polyolefin

Category : Polymer , Thermoplastic , Polyolefin , Polyphenylene Ether/PPO

Material Notes:

Flexible, non-halogenated FR, PPE+Polyolefin resin designed for evaluation in Automotive ISO6722 Class A-C applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCV065-PPEPolyolefin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	20.2 g/10 min	20.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	
Melt Index of Compound	20 g/10 min	20 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	30S reading; ASTM D2240
Tensile Strength at Break	37.0 MPa	5370 psi	Type I, 50 mm/min; ASTM D638
	37.0 MPa	5370 psi	50 mm/min; ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	Type I, 50 mm/min; ASTM D638
	39.0 MPa	5660 psi	50 mm/min; ISO 527
Elongation at Break	38 %	38 %	50 mm/min; ISO 527
	45 %	45 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	17 %	17 %	50 mm/min; ISO 527
	37 %	37 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.45 GPa	210 ksi	1 mm/min; ISO 527
Flexural Yield Strength	41.0 MPa	5950 psi	1.3 mm/min, 50 mm span; ASTM D790
	44.0 MPa	6380 psi	2 mm/min; ISO 178
Flexural Modulus	1.15 GPa	167 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.26 GPa	183 ksi	2 mm/min; ISO 178

Izod Impact Notched Mechanical Properties	5.50 J/cm Metric	10.3 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1A
	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	4.30 J/cm ²	20.5 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	33.0 J @Temperature 23.0 °C	24.3 ft-lb @Temperature 73.4 °F	ASTM D3763
	42.0 J @Temperature -30.0 °C	31.0 ft-lb @Temperature -22.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.0 µm/m-°C @Temperature -40.0 - 40.0 °C	45.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	131 µm/m-°C @Temperature -40.0 - 40.0 °C	72.8 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	115 °C @Thickness 3.20 mm	239 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	Flatw 80*10*4 sp=64mm; ISO 75/af
	84.0 °C @Thickness 3.20 mm	183 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	71.0 °C	160 °F	Rate B/50; ASTM D1525
	71.0 °C	160 °F	Rate B/50; ISO 306
	76.0 °C	169 °F	Rate B/120; ISO 306

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	IEC 60250
	0.0020	0.0020	

Designation Factor Electrical Properties	Metric @ Frequency 1.00e+6 Hz	English @ Frequency 1.00e+6 Hz	IEC 60250 Comments
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