

SABIC Innovative Plastics LNP Verton OV00A PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Verton* OV00A is a compound based on Polyphenylene Sulfide resin containing Long Glass Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-OV00A-PPS.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	ASTM D 638
	190 MPa	27600 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ASTM D 638
	1.0 %	1.0 %	ISO 527
Elongation at Yield	1.0 %	1.0 %	ASTM D 638
Tensile Modulus	15.16 GPa	2199 ksi	50 mm/min; ASTM D 638
	20.0 GPa	2900 ksi	1 mm/min; ISO 527
Flexural Strength	255 MPa	37000 psi	ASTM D 790
	285 MPa	41300 psi	ISO 178
Flexural Modulus	17.23 GPa	2499 ksi	ASTM D 790
	17.8 GPa	2580 ksi	ISO 178
Izod Impact, Notched	2.13 J/cm	3.99 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	31.0 kJ/m ²	14.8 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	281 °C	538 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 0.680 mm	V-0 @Thickness 0.0268 in	UL 94 by SABIC-IP

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