

SABIC Innovative Plastics LNP VERTON MV006S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* VERTON* MV006S is a compound based on Polypropylene resin containing 30% Long Glass Fiber. Added features of this material include: Chemically Coupled, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-MV006S-PP.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0026 cm/cm	0.0026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0059 cm/cm	0.0059 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	ASTM D638
	105 MPa	15200 psi	ISO 527
Elongation at Break	2.6 %	2.6 %	ASTM D638
	2.6 %	2.6 %	ISO 527
Tensile Modulus	7.81 GPa	1130 ksi	1 mm/min; ISO 527
Flexural Strength	150 MPa	21800 psi	ASTM D790
	153 MPa	22200 psi	ISO 178
Flexural Modulus	6.03 GPa	875 ksi	ASTM D790
	6.45 GPa	935 ksi	ISO 178
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.68 J/cm Metric	14.4 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	10.0 J	7.38 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.39	0.39	ASTM D3702 Modified
K (wear) Factor	88.6 x 10 ⁻⁸ mm ³ /N-M	44.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Åµm/m-Å°C	10.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	158 Å°C	316 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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