

SABIC Innovative Plastics LNP VERTON MV00ES PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* VERTON* MV00ES is primarily a concentrate used for blending purposes. This is a 70% long glass fiber Polypropylene compound.

Added features of this grade are: Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-MV00ES-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D638
	107 MPa	15500 psi	5 mm/min; ISO 527
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	20.16 GPa	2924 ksi	5 mm/min; ASTM D638
	20.5 GPa	2970 ksi	1 mm/min; ISO 527
Flexural Strength	171 MPa	24800 psi	ISO 178
Flexural Yield Strength	153 MPa	22200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	16.2 GPa	2350 ksi	1.3 mm/min, 50 mm span; ASTM D790
	16.9 GPa	2450 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched	5.46 J/cm	10.2 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	29.0 kJ/m ^Å ² Metric	13.8 ft-lb/in ^Å ² English	80*10*4; ISO 180/1A Comments
	118 kJ/m ^Å ²	56.1 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
Izod Impact, Unnotched (ISO)	39.0 kJ/m ^Å ²	18.6 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 Åµm/m-Å°C	12.8 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	154 Å°C	309 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	150 Å°C	302 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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