

LNP™ VERTON™ NV006E compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP VERTON NV006E is a compound based on PC+ABS blend resin containing 30% Long Glass Fiber. Added features of this material include: Easy Molding, Structural.

Also known as: LNP* VERTON* Compound PCA-F-7006 EM

Product reorder name: NV006E

General Information			
Filler / Reinforcement	Long Glass Fiber,30% Filler by Weight		
Features	Good Moldability		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.39	g/cm ³	ASTM D792
--	1.35	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.52	%	ISO 294-4
Flow : 24 hr	0.11	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11000	MPa	ASTM D638
--	10000	MPa	ISO 527-2/1
Tensile Strength			
Yield	132	MPa	ASTM D638
Yield	150	MPa	ISO 527-2
Break	130	MPa	ASTM D638
Break	150	MPa	ISO 527-2
Tensile Elongation			
Yield	1.6	%	ASTM D638
Yield	2.0	%	ISO 527-2
Break	1.7	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	8270	MPa	ASTM D790
--	9000	MPa	ISO 178

Flexural Strength			
--	193	MPa	ASTM D790
--	123	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	260	J/m	ASTM D256
23°C ²	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	48	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	14.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	137	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.1E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 93.3	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	260 to 271	°C	
Middle Temperature	271 to 282	°C	
Front Temperature	282 to 293	°C	
Processing (Melt) Temp	277 to 288	°C	
Mold Temperature	60.0 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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