

LNP™ VERTON™ NV004E compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP VERTON* NV004E is a compound based on PC+ABS Blend resin containing Long Glass. Added features of this material include: Easy Molding.

Also known as: LNP* VERTON* Compound PCA-F-7004 EM

Product reorder name: NV004E

General Information			
Filler / Reinforcement	Long glass fiber		
Features	Good formability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.20 - 0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.20 - 0.40	%	ISO 294-4
Flow direction: 24 hours	0.20 - 0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6620	MPa	ASTM D638
--	7800	MPa	ISO 527-2/1
Tensile Strength			
Fracture	119	MPa	ASTM D638
Fracture	125	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.4	%	ASTM D638
Fracture	2.1	%	ISO 527-2
Flexural Modulus			
--	5670	MPa	ASTM D790
--	6980	MPa	ISO 178
Flexural Strength			
--	160	MPa	ASTM D790
--	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	170	J/m	ASTM D256
23°C	160	J/m	ASTM D256

-40°C ²	18	kJ/m ²	ISO 180/1A
23°C ³	18	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	570	J/m	ASTM D4812
23°C ⁴	41	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	16.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	134	°C	ASTM D648
Linear thermal expansion coefficient			
Flow: -40 to 40°C	4.3E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	4.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	4.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	260 - 271	°C	
Middle Temperature	271 - 282	°C	
Front Temperature	282 - 293	°C	
Processing (Melt) Temp	277 - 288	°C	
Mold Temperature	60.0 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4		

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