

LNP™ VERTON™ EV008 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP VERTON EV008 is a compound based on Polyetherimide containing 40% Long Glass Fiber. Added feature of this grade is: Structural.

Also known as: LNP* VERTON* Compound EXVT0010

Product reorder name: EV008

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	15100	MPa	ASTM D638
Tensile Strength ² (Break)	187	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.5	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	14400	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	268	MPa	ASTM D790
Compressive Strength	282	MPa	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	20	J/m	ASTM D256
Unnotched Izod Impact (23°C)	42	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	206	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 30°C	1.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.1E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	343 to 360	°C	
Middle Temperature	350 to 362	°C	
Front Temperature	350 to 362	°C	
Processing (Melt) Temp	350 to 362	°C	

Mold Temperature	148 to 162	°C
Back Pressure	0.290 to 0.430	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|--------------------|
| 1. | 5.0 mm/min |
| 2. | Type I, 5.0 mm/min |
| 3. | Type I, 5.0 mm/min |
| 4. | 1.3 mm/min |
| 5. | 1.3 mm/min |

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