LNP™ VERTON™ E9007E compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP VERTON E9007E is a compound based on Polyetherimide (PEI) containing 35% Long Carbon Fiber. Added features of this grade include: Structural, High Temperature
Also known as: LNP* VERTON* Compound E9007E
Product reorder name: E9007E

General Information			
Filler / Reinforcement	Long Carbon Fiber,35% Filler by Weight		
Features	High Heat Resistance		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.41	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	32000	MPa	ASTM D638
--	33000	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	267	MPa	ASTM D638
Break	253	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.0	%	ASTM D638
Break	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	28900	MPa	ASTM D790
-- [5]	28500	MPa	ISO 178
Flexural Stress			
--	411	MPa	ISO 178
Break, 50.0 mm Span [6]	429	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C [7]	16	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	520	J/m	ASTM D4812
23°C [8]	34	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature [9] (1.8 MPa, Unannealed, 64.0 mm Span)	215	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	2.2E-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 370	°C
Middle Temperature	350 to 380	°C
Front Temperature	350 to 380	°C
Processing (Melt) Temp	350 to 380	°C
Mold Temperature	175 to 200	°C
Back Pressure	0.290 to 0.430	MPa
Screw Speed	20 to 40	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.	2.0 mm/min
6.	1.3 mm/min
7.	80*10*4
8.	80*10*4
9.	80*10*4 mm

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