

LNP™ THERMOTUF™ MF004AI compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP THERMOTUF MF004AI is a compound based on Polypropylene resin containing Glass Fiber. Added features of this material include: High Impact.
Also known as: LNP* THERMOTUF* Compound MF-1004 HI
Product reorder name: MF004AI

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Impact resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.1 - 1.3	%	ASTM D955
Transverse flow: 24 hours	1.1 - 1.3	%	ASTM D955
Vertical flow direction: 24 hours	1.2	%	ISO 294-4
Flow direction: 24 hours	1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4830	MPa	ASTM D638
--	4940	MPa	ISO 527-2/1
Tensile Strength			
Fracture	40.0	MPa	ASTM D638
Fracture	37.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	4.8	%	ASTM D638
Fracture	4.5	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength			
--	41.4	MPa	ASTM D790
--	46.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ²	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812

23°C ³	28	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	151	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	144	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	109	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	104	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 - 204	°C	
Middle Temperature	216 - 227	°C	
Front Temperature	238 - 249	°C	
Processing (Melt) Temp	227 - 249	°C	
Mold Temperature	32.2 - 48.9	°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 mm		
5.	80*10*4 mm		

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