LNP™ THERMOTUF™ RF006I compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOTUF RF006I is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: High Impact.
Also known as: LNP* THERMOTUF* Compound RF-1006 HI
Product reorder name: RF006I

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Impact Resistance		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	1.1	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.27	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.64	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	10400	MPa	ASTM D638
--	10800	MPa	ISO 527-2/1
Tensile Strength			
Break	161	MPa	ASTM D638
Break	179	MPa	ISO 527-2
Tensile Elongation			
Break	3.2	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			
--	8690	MPa	ASTM D790
--	9480	MPa	ISO 178
Flexural Strength			
--	248	MPa	ASTM D790
--	267	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C [2]	15	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812

23°C [3]	76	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	17.9	J	ASTM D3763
--	5.66	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	259	°C	
1.8 MPa, Unannealed, 3.20 mm	121	°C	
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.1E-5	cm/cm/°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°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		

Recommended distributors for this material

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