

LNP™ THERMOTUF™ MF0049I compound

Polypropylene

SABIC Innovative Plastics Europe

Message:

LNP THERMOTUF MF0049I is a compound based on Polypropylene resin containing Glass Fiber, Flame Retardant. Added features include; Flame Retardant, Chemically Coupled.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Chemically Coupled		
	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.34	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5300	MPa	ISO 527-2/1
Tensile Stress (Yield)	57.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.7	%	ISO 527-2/5
Flexural Modulus ¹	4700	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	156	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	

Mold Temperature	32.2 to 48.9	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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