

LNP™ THERMOCOMP™ MFB41I compound

Polypropylene

SABIC Innovative Plastics Europe

Message:

LNP* Thermocomp* MFB41I is a compound based on Polypropylene resin containing Glass Fiber, Glass Bead. Added features include: Chemically Coupled

Also known as: LNP* THERMOCOMP* Compound MFB41I

Product reorder name: MFB41I

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber		
Features	Chemical coupling		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.60 - 0.80	%	Internal method
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2/1
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.1	%	ISO 527-2/5
Flexural Modulus ²	2300	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	134	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	82.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.7E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.4E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82	°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 - 49	°C	

Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm
NOTE		
1.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	
4.	80*10*4	
5.	80*10*4 mm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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