

LNP™ THERMOCOMP™ MF002S compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP MF002S is a compound based on Polypropylene resin containing Glass Fiber. Added features include: Heat Stabilized.

General Information			
UL YellowCard	E45329-101283862		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	heat stabilizer		
Features	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	53.0	MPa	ISO 527-2/5
Fracture	51.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	4.0	%	ISO 527-2/5
Fracture	4.1	%	ISO 527-2/5
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	8.0	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			
0.45 MPa, unannealed, 64.0mm span	145	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	106	°C	ISO 75-2/Af
CLTE - Flow (23 to 60°C)	6.8E-5	cm/cm/°C	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. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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