

LNP™ THERMOCOMP™ MF002S compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP MF002S is a compound based on Polypropylene resin containing 10% Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound MFX-1002 HS

Product reorder name: MF002S

General Information			
UL YellowCard	E121562-101283897		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	0.960	g/cm ³	
--	0.968	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	7.0E-3	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.015	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2980	MPa	ASTM D638
--	2980	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	46.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2/5
Break	51.7	MPa	ASTM D638
Break ³	42.0	MPa	ASTM D638
Break	44.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.7	%	ASTM D638
Yield	4.4	%	ISO 527-2/5
Break	3.7	%	ASTM D638
Break ⁵	6.7	%	ASTM D638
Break	5.8	%	ISO 527-2/5

Flexural Modulus			
--	2870	MPa	ASTM D790
50.0 mm Span ⁶	2390	MPa	ASTM D790
-- ⁷	2340	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790
--	64.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	39	J/m	ASTM D256
23°C ⁸	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C ⁹	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.80	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	154	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	146	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	113	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	99.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.8E-5	cm/cm/°C	
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.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		

6.	1.3 mm/min
7.	2.0 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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