

LNP™ THERMOCOMP™ MFB22S compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP MFB22S is a compound based on Polypropylene containing 10% Glass Fiber, 10% Glass Bead. Added feature of this grade is: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound MFX-1004 HS MG

Product reorder name: MFB22S

General Information			
Filler / Reinforcement	Glass Bead,10% Filler by Weight		
	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
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	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3660	MPa	ASTM D638
--	3250	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	47.0	MPa	ASTM D638
Break ³	45.0	MPa	ASTM D638
Break	45.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.2	%	ASTM D638
Yield	3.2	%	ISO 527-2/5
Break ⁵	4.1	%	ASTM D638
Break	3.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2830	MPa	ASTM D790
-- ⁷	2780	MPa	ISO 178
Flexural Stress			

--	70.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	73.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁹	4.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	410	J/m	ASTM D4812
23°C ¹⁰	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.00	J	ASTM D3763
--	2.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	148	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	103	°C	ISO 75-2/Af
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.	5.0 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.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

