

LNP™ THERMOCOMP™ MF004AS compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* MF004AS is a compound based on Polypropylene resin containing 20% Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound MF-1004 HS

Product reorder name: MF004AS

General Information			
UL YellowCard	E121562-101283897	E121562-101284109	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.70	%	ASTM D955
Across Flow : 24 hr	0.90 to 1.0	%	ASTM D955
Across Flow : 24 hr	0.95	%	ISO 294-4
Flow : 24 hr	0.72	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4550	MPa	ASTM D638
--	5100	MPa	ISO 527-2/1
Tensile Strength			
Break	63.8	MPa	ASTM D638
Break	65.3	MPa	ISO 527-2
Tensile Elongation			
Break	2.3	%	ASTM D638
Break	2.2	%	ISO 527-2
Flexural Modulus			
--	4340	MPa	ASTM D790
--	5600	MPa	ISO 178
Flexural Strength			
--	92.7	MPa	ASTM D790
--	104	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	48	J/m	ASTM D256
23°C ²	5.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	330	J/m	ASTM D4812
23°C ³	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.30	J	ASTM D3763
--	1.91	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	161	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	149	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	145	°C	ISO 75-2/Af
CLTE - Transverse (-40 to 40°C)	7.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm, Testing by SABIC)	HB		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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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