

LNP™ THERMOCOMP™ MF006S compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP THERMOCOMP MF006S is a compound based on Polypropylene resin containing 30% Glass Fiber. Added features of this material include: Heat Stabilized.
Also known as: LNP* THERMOCOMP* Compound MFX-1006 HS
Product reorder name: MF006S

General Information			
UL YellowCard	E121562-101283897		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.90 to 1.1	%	ASTM D955
Across Flow : 24 hr	0.98	%	ISO 294-4
Flow : 24 hr	0.65	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14500	MPa	ASTM D638
--	9120	MPa	ISO 527-2/1
Tensile Strength			
Break	81.4	MPa	ASTM D638
Break	80.0	MPa	ISO 527-2
Tensile Elongation			
Break	1.8	%	ASTM D638
Break	3.1	%	ISO 527-2
Flexural Modulus			
--	6210	MPa	ASTM D790
--	6800	MPa	ISO 178
Flexural Strength			
--	131	MPa	ASTM D790
--	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256

23°C ²	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	600	J/m	ASTM D4812
23°C ³	38	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	158	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	161	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	134	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	141	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	6.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	4.4E-5	cm/cm/°C	ISO 11359-2
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		
5.	80*10*4 mm		

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