

LNP™ THERMOCOMP™ MF006SXP

compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* MF006SXP is a compound based on Polypropylene resin containing 30% Glass Fiber. Added features of this material include: Chemically Coupled.

Also known as: LNP* THERMOCOMP* Compound MFX-1006

Product reorder name: MF006SXP

General Information			
UL YellowCard	E121562-101283897		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Chemically Coupled		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.96	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7310	MPa	ASTM D638
--	7600	MPa	ISO 527-2/1
Tensile Strength			
Break	88.1	MPa	ASTM D638
Break	91.6	MPa	ISO 527-2
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	3.2	%	ISO 527-2
Flexural Modulus			
--	6210	MPa	ASTM D790
--	8700	MPa	ISO 178
Flexural Strength			
--	139	MPa	ASTM D790
--	159	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	700	J/m	ASTM D4812
23°C ³	45	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.70	J	ASTM D3763
--	2.70	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	151	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	152	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.0E-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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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