

LNP™ THERMOCOMP™ JF002 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* JF002 is a compound based on Polyethersulfone resin containing 10% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound JF-1002

Product reorder name: JF002

General Information			
UL YellowCard	E121562-101282575		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.51	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.85	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4680	MPa	ASTM D638
--	4420	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	105	MPa	ASTM D638
Yield	103	MPa	ISO 527-2/5
Break ³	102	MPa	ASTM D638
Break	102	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.4	%	ASTM D638
Yield	4.3	%	ISO 527-2/5
Break ⁵	5.4	%	ASTM D638
Break	5.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4370	MPa	ASTM D790
-- ⁷	4060	MPa	ISO 178
Flexural Strength ⁸ (Yield, 50.0 mm Span)	176	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256

23°C ⁹	5.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	840	J/m	ASTM D4812
23°C ¹⁰	54	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	220	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	221	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	212	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	360 to 371	°C	
Front Temperature	371 to 382	°C	
Processing (Melt) Temp	354 to 371	°C	
Mold Temperature	138 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	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.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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