

LNP™ THERMOCOMP™ LF002 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF002 is a compound based on Polyetheretherketone resin containing 10% Glass Fiber.

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

Product reorder name: LF002

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.50 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6080	MPa	ASTM D638
--	6500	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	120	MPa	ASTM D638
Yield	125	MPa	ISO 527-2/5
Break ³	114	MPa	ASTM D638
Break	122	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.4	%	ASTM D638
Yield	3.4	%	ISO 527-2/5
Break ⁵	4.2	%	ASTM D638
Break	4.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6010	MPa	ASTM D790
-- ⁷	5670	MPa	ISO 178
Flexural Strength ⁸ (Yield, 50.0 mm Span)	203	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ⁹	4.6	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	860	J/m	ASTM D4812
23°C ¹⁰	50	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.80	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	326	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	285	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	169	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	171	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	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		

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