

LNP™ THERMOCOMP™ JF004 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* JF004 is a compound based on Polyethersulfone resin containing 20% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound JF-1004

Product reorder name: JF004

General Information			
UL YellowCard	E121562-101282575		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.74	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7360	MPa	ASTM D638
--	7590	MPa	ISO 527-2/1
Tensile Strength			
Break	114	MPa	ASTM D638
Break	109	MPa	ISO 527-2
Tensile Elongation			
Break	2.8	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			
--	6690	MPa	ASTM D790
--	6420	MPa	ISO 178
Flexural Strength			
--	186	MPa	ASTM D790
--	183	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	7.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	410	J/m	ASTM D4812
23°C ³	73	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.8	J	ASTM D3763
--	4.49	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	206	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	205	°C	ISO 75-2/Af
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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