

LNP™ THERMOCOMP™ JF003XXZ compound

Polyethersulfone

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP JF003XXZ is a compound based on Polyethersulfone resin containing Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound JF-1003

Product reorder name: JF003XXZ

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40 - 0.60	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.67	%	ISO 294-4
Flow direction: 24 hours	0.51	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6210	MPa	ASTM D638
--	6410	MPa	ISO 527-2/1
Tensile Strength			
Yield	110	MPa	ASTM D638, ISO 527-2
Fracture	110	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield	3.2	%	ASTM D638
Yield	3.1	%	ISO 527-2
Fracture	3.2	%	ASTM D638
Fracture	3.1	%	ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	5500	MPa	ISO 178
Flexural Strength			
--	172	MPa	ASTM D790
--	176	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.8	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	670	J/m	ASTM D4812
23°C ³	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.7	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	213	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	214	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	207	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	207	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	5.4E-6	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	5.6E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	3.6E-6	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	360 - 371	°C	
Front Temperature	371 - 382	°C	
Processing (Melt) Temp	354 - 371	°C	
Mold Temperature	138 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	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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