

LNP™ THERMOCOMP™ JF003E compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP JF003E is a compound based on Polyethersulfone resin containing 15% Glass Fiber. Added features of this material include: Easy Molding.

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

Product reorder name: JF003E

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
	1.48		
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.45	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5670	MPa	ASTM D638
--	5670	MPa	ISO 527-2/1
Tensile Strength			
Break ²	107	MPa	ASTM D638
Break	101	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.8	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	5680	MPa	ASTM D790
-- ⁵	5330	MPa	ISO 178
Flexural Stress			
--	174	MPa	ISO 178
Break, 50.0 mm Span ⁶	174	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	45	J/m	ASTM D256
23°C ⁷	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	530	J/m	ASTM D4812
23°C ⁸	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.90	J	ASTM D3763
--	1.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	218	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	218	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	212	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	211	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.7E-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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

