

LNP™ THERMOCOMP™ LF003 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF003 is a compound based on Polyetheretherketone resin containing 15% Glass Fiber.

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

Product reorder name: LF003

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	1.0	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.79	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6930	MPa	ISO 527-2/1
Tensile Strength			
Yield	137	MPa	ASTM D638
Yield	125	MPa	ISO 527-2
Break	137	MPa	ASTM D638
Break	125	MPa	ISO 527-2
Tensile Elongation			
Yield	2.9	%	ASTM D638
Yield	2.4	%	ISO 527-2
Break	3.1	%	ASTM D638
Break	2.4	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Strength			
--	200	MPa	ASTM D790
--	209	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ¹	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	850	J/m	ASTM D4812
23°C ²	54	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			

23°C, Energy at Peak Load	14.6	J	ASTM D3763
--	3.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	329	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ³	325	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	244	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.8E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		
4.	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



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