

LNP™ THERMOCOMP™ LF004E compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF004E is a compound based on Polyetheretherketone resin containing Glass Fiber. Added features of this material include: Easy Molding.
Also known as: LNP* THERMOCOMP* Compound LF-1004 EM
Product reorder name: LF004E

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good formability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30 - 0.50	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.58	%	ISO 294-4
Flow direction: 24 hours	0.44	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7630	MPa	ISO 527-2/1
Tensile Strength			
Yield	127	MPa	ASTM D638
Yield	114	MPa	ISO 527-2
Fracture	127	MPa	ASTM D638
Fracture	114	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	1.8	%	ISO 527-2
Fracture	2.2	%	ASTM D638
Fracture	1.8	%	ISO 527-2
Flexural Modulus			
--	6890	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Strength			
--	214	MPa	ASTM D790
--	207	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	4.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	520	J/m	ASTM D4812
23°C ³	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.30	J	ASTM D3763
--	1.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	332	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	329	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	286	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	261	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	3.3E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	
Front Temperature	382 - 393	°C	
Processing (Melt) Temp	382 - 388	°C	
Mold Temperature	138 - 166	°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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