

LNP™ THERMOCOMP™ LF006E compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF006E is a compound based on Polyetheretherketone resin containing 30% Glass Fiber. Added features of this material include: Easy Molding.

Also known as: LNP* THERMOCOMP* Compound LF-1006 EM

Product reorder name: LF006E

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.53	g/cm ³	ASTM D792
--	1.54	g/cm ³	ISO 1183
Water Absorption (24 hr, 50% RH)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13000	MPa	ASTM D638
--	12900	MPa	ISO 527-2/1
Tensile Strength			
Break	181	MPa	ASTM D638
Break	188	MPa	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	11000	MPa	ASTM D790
--	12500	MPa	ISO 178
Flexural Strength			
--	262	MPa	ASTM D790
--	278	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	910	J/m	ASTM D4812
23°C ³	59	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	8.10	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	> 299	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	> 240	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	> 299	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	> 240	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.0E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.1E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.6E-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.	5.0 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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