

LNP™ THERMOCOMP™ LC006E compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* LC006E is a compound based on Polyetheretherketone resin containing Carbon Fiber. Added features of this material include: Easy Molding.

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

Product reorder name: LC006E

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.77	%	ISO 294-4
Flow : 24 hr	0.11	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	25000	MPa	ASTM D638
--	24600	MPa	ISO 527-2/1
Tensile Strength (Break)	228	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Break	1.3	%	ASTM D638
Break	1.0	%	ISO 527-2
Flexural Modulus			
--	21600	MPa	ASTM D790
--	21700	MPa	ISO 178
Flexural Strength	340	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812

23°C ³	37	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.62	J	ASTM D3763
--	4.57	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	300	°C	ASTM D648
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 to 360	°C	
Middle Temperature	366 to 377	°C	
Front Temperature	382 to 393	°C	
Processing (Melt) Temp	382 to 388	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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