

LNP™ THERMOCOMP™ LC006 compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP THERMOCOMP* LC006 is a compound based on Polyetheretherketone resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* THERMOCOMP* Compound LC-1006
Product reorder name: LC006

General Information			
UL YellowCard	E121562-101284441		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.12	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- 1	30800	MPa	ASTM D638
--	24700	MPa	ISO 527-2/1
Tensile Strength			
Break	226	MPa	ASTM D638
Break	230	MPa	ISO 527-2
Tensile Elongation (Break)	1.5	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	20200	MPa	ASTM D790
--	24300	MPa	ISO 178
Flexural Strength			
--	325	MPa	ASTM D790
--	347	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.30		
vs. Itself - Static	0.32		
Wear Factor - Washer	55.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	7.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	610	J/m	ASTM D4812
23°C ³	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	12.5	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			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.2E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.770 mm, Testing by SABIC)	V-0		UL 94
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.	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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