

LNP™ THERMOCOMP™ LC008EXP compound

Polyetheretherketone

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP LC008EXP is a compound based on Polyetheretherketone containing Carbon Fiber. Added features include Electrically Conductive, Easy Molding.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
	Good Moldability		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26200	MPa	ISO 527-2/1
Tensile Stress (Break)	256	MPa	ISO 527-2/5
Tensile Strain (Break)	1.6	%	ISO 527-2/5
Flexural Modulus ¹	22900	MPa	ISO 178
Flexural Stress	341	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	> 300	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.0E-6	cm/cm/°C	
Transverse : 23 to 60°C	4.1E-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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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