LNP™ THERMOCOMP™ LC008EXQ compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LC008EXQ is a compound based on Polyetheretherketone containing 40% Carbon Fiber. Added features of this grade include: Electrically Conductive, Easy Molding.
Also known as: LNP* THERMOCOMP* Compound LC008EXQ
Product reorder name: LC008EXQ

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive Good Moldability		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.44	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.15 to 0.30	%	
Across Flow : 24 hr	0.70 to 1.4	%	
Water Absorption (24 hr, 50% RH)	0.050	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	41500	MPa	ASTM D638
--	40400	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	330	MPa	ASTM D638
Break	321	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.5	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	35200	MPa	ASTM D790
-- [5]	33800	MPa	ISO 178
Flexural Stress			
--	460	MPa	ISO 178
Break, 50.0 mm Span [6]	492	MPa	ASTM D790
Compressive Strength	215	MPa	Internal Method
Shear Modulus	5000	MPa	ASTM C273

Shear Strength	126	MPa	ASTM C273
Poisson's Ratio	0.47		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	82	J/m	ASTM D256
Unnotched Izod Impact (23°C)	860	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	7.20	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	335	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		

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