

LNP™ THERMOCOMP™ LC00APXQ

compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LC00APXQ is a compound based on Polyetheretherketone resin containing 50% Carbon Fiber. Added features of this material include: Exceptional Processing, Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound LC00APXQ

Product reorder name: LC00APXQ

General Information			
Filler / Reinforcement	Carbon Fiber,50% Filler by Weight		
Features	Electrically Conductive		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.13 to 0.25	%	
Across Flow : 24 hr	0.60 to 1.3	%	
Water Absorption (24 hr, 50% RH)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	49800	MPa	ASTM D638
--	47400	MPa	ISO 527-2/1
Tensile Strength			
Break ²	328	MPa	ASTM D638
Break	320	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.2	%	ASTM D638
Break	1.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	40500	MPa	ASTM D790
-- ⁵	40700	MPa	ISO 178
Flexural Stress			
--	473	MPa	ISO 178
Break, 50.0 mm Span ⁶	505	MPa	ASTM D790
Shear Modulus	5190	MPa	ASTM C273
Shear Strength	114	MPa	ASTM C273

Poisson's Ratio	0.45		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	77	J/m	ASTM D256
Unnotched Izod Impact (23°C)	770	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	7.50	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	335	°C	ASTM D648
CLTE			ASTM E831
Flow : -40 to 150°C	2.0E-6	cm/cm/°C	
Transverse : -40 to 150°C	2.0E-5	cm/cm/°C	
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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