

LNP™ THERMOCOMP™ LX04015 compound

Polyetheretherketone
SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP LX04015 is a compound based on Polyetheretherketone containing Carbon Fiber. Added features include: Electrically Conductive
Also known as: LNP* THERMOCOMP* Compound PDXL04015
Product reorder name: LX04015

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ISO 527-2/1
Tensile Stress (Yield)	200	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ¹	11100	MPa	ISO 178
Flexural Stress	275	MPa	ISO 178
Flexural Strain at Break ²	3.1	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	300	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	5.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+7	ohms	ASTM D257
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.	2 mm/min	
3.	80*10*4	
4.	80*10*4	
5.	80*10*4 mm	

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