

LNP™ THERMOCOMP™ LX03447 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LX03447 is a compound based on Polyetheretherketone containing Proprietary Filler(s).

Also known as: LNP* THERMOCOMP* Compound PDX-L-03447

Product reorder name: LX03447

General Information			
Filler / Reinforcement	Proprietary		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 3.0	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	28500	MPa	ASTM D638
--	28400	MPa	ISO 527-2/1
Tensile Strength			
Break ²	248	MPa	ASTM D638
Break	246	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.6	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	23700	MPa	ASTM D790
-- ⁵	23800	MPa	ISO 178
Flexural Stress			
--	360	MPa	ISO 178
Yield, 50.0 mm Span ⁶	370	MPa	ASTM D790
Break, 50.0 mm Span ⁷	365	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	70	J/m	ASTM D256
23°C ⁸	6.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	770	J/m	ASTM D4812
23°C ⁹	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.00	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	337	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	335	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	325	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	318	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	3.9E-5	cm/cm/°C	
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.	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		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

