

LNP™ THERMOCOMP™ LX08411 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LX08411 is a compound based on Polyetheretherketone resin containing Carbon Fiber. Added feature of this material is: Opaque.

Also known as: LNP* THERMOCOMP* Compound LX08411

Product reorder name: LX08411

General Information			
Filler / Reinforcement	Carbon Fiber		
Appearance	Opaque		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.28	%	
Across Flow : 24 hr	0.75 to 0.85	%	
Water Absorption (24 hr, 50% RH)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	23500	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	270	MPa	
Break	270	MPa	
Tensile Elongation ³			ASTM D638
Yield	1.8	%	
Break	1.8	%	
Flexural Modulus ⁴ (50.0 mm Span)	25000	MPa	ASTM D790
Flexural Strength ⁵			ASTM D790
Yield, 50.0 mm Span	366	MPa	
Break, 50.0 mm Span	366	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Unnotched Izod Impact (23°C)	780	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	341	°C	
1.8 MPa, Unannealed, 3.20 mm	327	°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. | 1.3 mm/min |

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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

