

LNP™ THERMOCOMP™ EX11413 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* EX11413 is a compound based on Polyetherimide resin containing Carbon Fiber.

Also known as: LNP* THERMOCOMP* Compound EX11413

Product reorder name: EX11413

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Water Absorption (24 hr, 50% RH)	0.24	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11200	MPa	ASTM D638
Tensile Strength ² (Break)	197	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.4	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	9660	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	268	MPa	ASTM D790
Poisson's Ratio	0.44		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	520	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	213	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	120 - 150	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	380 - 400	°C	
Middle Temperature	380 - 400	°C	
Front Temperature	380 - 400	°C	
Processing (Melt) Temp	380 - 400	°C	
Mold Temperature	165 - 180	°C	
Back Pressure	0.300 - 0.700	MPa	
Screw Speed	50 - 100	rpm	
Injection instructions			

Injection Speed: 40 - 70 mm/s

NOTE

1.	5.0 mm/min
2.	Type 1, 5.0 mm/min
3.	Type 1, 5.0 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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