

LNP™ THERMOCOMP™ EX11414 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* EX11414 is a compound based on Polyetherimide containing 20% Carbon Fiber.

Also known as: LNP* THERMOCOMP* Compound EX11414

Product reorder name: EX11414

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Water Absorption (24 hr, 50% RH)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	17400	MPa	ASTM D638
Tensile Strength ² (Break)	230	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.8	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	14600	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	308	MPa	ASTM D790
Poisson's Ratio	0.44		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	78	J/m	ASTM D256
Unnotched Izod Impact (23°C)	600	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+4 - 1.0E+5	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

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

