

LNP™ THERMOCOMP™ 9X11427 compound

Thermoplastic

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 9X11427 is a compound based on Miscellaneous resin containing 40% specialty glass filled TP alloy. Added features of this grade include: Ultra-Stiff Toughness, Improved Impact, Good Flow for Thin Wall molding.

Also known as: LNP* THERMOCOMP* Compound 9X11427

Product reorder name: 9X11427

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Flow		
	High Impact Resistance		
	Ultra High Stiffness		
	Ultra High Toughness		
Uses	Thin-walled Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.57	g/cm ³	
--	1.56	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption (24 hr, 50% RH)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14600	MPa	ASTM D638
--	14300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	150	MPa	ASTM D638
Break	141	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.7	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	12900	MPa	ASTM D790
-- ⁵	12300	MPa	ISO 178
Flexural Stress			
--	219	MPa	ISO 178

Yield, 50.0 mm Span ⁶	229	MPa	ASTM D790
Break, 50.0 mm Span ⁷	227	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C ⁸	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁹	70	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	11.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	220	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	218	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	201	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	198	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.8E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 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		

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

