

LNP™ THERMOCOMP™ 9X07430 compound

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 9X07430 is a compound based on a PBT+PC Blend containing Glass Fiber, Talc. Added features of this material include: Opaque, Weatherable.

Also known as: LNP* THERMOCOMP* Compound 9X07430

Product reorder name: 9X07430

General Information			
Filler / Reinforcement	Glass\Talc		
Features	Good Weather Resistance		
Appearance	Opaque		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.51	%	Internal Method
Flow : 24 hr	0.50 to 0.51	%	ASTM D955
Across Flow	0.59	%	Internal Method
Across Flow : 24 hr	0.58 to 0.59	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3300	MPa	ASTM D638
--	3160	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/5
Break ³	51.0	MPa	ASTM D638
Break	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.9	%	ASTM D638
Yield	3.1	%	ISO 527-2/5
Break ⁵	4.8	%	ASTM D638
Break	4.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	3140	MPa	ASTM D790
-- ⁷	3020	MPa	ISO 178

Flexural Stress			
--	97.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	99.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ⁹	8.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	720	J/m	ASTM D4812
23°C ¹⁰	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
-30°C, Energy at Peak Load	3.00	J	ASTM D3763
-30°C, Total Energy	7.00	J	ASTM D3763
23°C, Energy at Peak Load	9.00	J	ASTM D3763
23°C, Total Energy	14.0	J	ASTM D3763
--	7.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	102	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	105	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	5.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.3E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 110	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	245 to 270	°C	
Middle Temperature	255 to 275	°C	
Front Temperature	260 to 280	°C	
Nozzle Temperature	260 to 280	°C	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	80.0 to 110	°C	
Back Pressure	0.300 to 0.700	MPa	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm

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