

LNP™ THERMOCOMP™ 9X11428J compound

Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 9X11428J is a compound based on Polyphenylsulfone containing Proprietary Fillers. Added features of this material include: Healthcare, Low Extractable.

Also known as: LNP* THERMOCOMP* Compound 9X11428J

Product reorder name: 9X11428J

General Information			
Filler / Reinforcement	Proprietary		
Features	Low Extractables		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 2.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.29	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2390	MPa	ASTM D638
--	2330	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	74.0	MPa	ASTM D638
Yield	71.0	MPa	ISO 527-2/5
Break ³	58.0	MPa	ASTM D638
Break	57.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	8.0	%	ASTM D638
Yield	7.0	%	ISO 527-2/5
Break ⁵	15	%	ASTM D638
Break	22	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2430	MPa	ASTM D790
-- ⁷	2270	MPa	ISO 178
Flexural Stress	91.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	190	J/m	ASTM D256
23°C ⁸	11	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			
23°C, Total Energy	42.9	J	ASTM D3763
--	44.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	210	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	199	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	196	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.5E-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.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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