

LNP™ THERMOCOMP™ 9X10401H compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 9X10401H is a compound based on Polyphenylsulfone containing proprietary filler(s). Added feature of this grade is: X-Ray Opaque.

Also known as: LNP* THERMOCOMP* Compound 9X10401H

Product reorder name: 9X10401H

General Information			
Filler / Reinforcement	Proprietary		
Features	X-Ray Shielding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.46	g/cm ³	
--	1.45	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 1.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.26	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.47	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2660	MPa	ASTM D638
--	2550	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	72.0	MPa	ASTM D638
Yield	71.0	MPa	ISO 527-2/5
Break ³	57.0	MPa	ASTM D638
Break	57.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	7.0	%	ASTM D638
Yield	7.0	%	ISO 527-2/5
Break ⁵	12	%	ASTM D638
Break	12	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2720	MPa	ASTM D790
-- ⁷	2580	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	86	J/m	ASTM D256

23°C ⁸	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ⁹	180	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	34.0	J	ASTM D3763
--	29.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	213	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	203	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	200	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.3E-5	cm/cm/°C	
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		
10.	80*10*4 mm		
11.	80*10*4 mm		

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