

LNP* Thermocomp* NX07354

Acrylonitrile Butadiene Styrene + PC

SABIC Innovative Plastics Asia Pacific



Technical Data

Product Description

This is a PC/ABS compound, a good candidate for Laser Direct Structuring applications.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E207780-101343770
Search for UL Yellow Card	• SABIC Innovative Plastics Asia Pacific • LNP* Thermocomp*
Availability	• Asia Pacific
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.23 g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage		Internal Method
Flow	0.74 %	
Across Flow	0.63 %	
Water Absorption (24 hr, 50% RH)	0.20 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	2350 MPa	ASTM D638
--	2300 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁵	53.7 MPa	ASTM D638
Yield	53.1 MPa	ISO 527-2/5
Break ⁶	43.6 MPa	ASTM D638
Break	42.1 MPa	ISO 527-2/5
Tensile Elongation		
Yield ⁶	4.7 %	ASTM D638
Yield	4.6 %	ISO 527-2/5
Break ⁵	42 %	ASTM D638
Break	40 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁷	2310 MPa	ASTM D790
-- ⁸	2240 MPa	ISO 178
Flexural Strength		
-- ^{8,9}	83.5 MPa	ISO 178
Yield, 50.0 mm Span ⁷	82.5 MPa	ASTM D790
Break, 50.0 mm Span ⁷	80.9 MPa	ASTM D790
Flexural Strain at Break ¹⁰	7.5 %	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	610 J/m	ASTM D256
23°C ¹¹	54 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	106 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	105 °C	ISO 75-2/Af

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Thermal	Nominal Value Unit	Test Method
CLTE		ASTM E831
Flow: -40 to 40°C	0.000076 cm/cm/°C	
Transverse: -40 to 40°C	0.000085 cm/cm/°C	
Electrical	Nominal Value Unit	Test Method
Dielectric Constant (1.00 GHz)	2.74	ASTM D150
Dissipation Factor (1.00 GHz)	0.0030	ASTM D150
Injection	Nominal Value Unit	
Drying Temperature	90.0 to 100 °C	
Drying Time	3.0 to 4.0 hr	
Drying Time, Maximum	8.0 hr	
Suggested Max Moisture	0.020 %	
Rear Temperature	220 to 250 °C	
Middle Temperature	230 to 260 °C	
Front Temperature	240 to 260 °C	
Nozzle Temperature	240 to 270 °C	
Processing (Melt) Temp	240 to 270 °C	
Mold Temperature	80.0 to 100 °C	
Back Pressure	0.200 to 0.500 MPa	
Screw Speed	40 to 70 rpm	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 mm/min

⁵ Type I, 50 mm/min

⁶ Type I, 5.0 mm/min

⁷ 1.3 mm/min

⁸ 2.0 mm/min

⁹ Yield

¹⁰ 2 mm/min

¹¹ 80*10*4

¹² 80*10*4 mm

