

LNP* Thermocomp* HX05073

Polyamide 11
SABIC Innovative Plastics

Technical Data

Product Description
LNP THERMOCOMP* HX05073 is a compound based on Nylon 11 resin containing Glass Fiber.
Also known as: LNP* Thermocomp* Compound HF-1006 Product reorder name: HX05073

General	
Material Status	Commercial: Active
Literature ¹	Technical Datasheet
Search for UL Yellow Card	SABIC Innovative Plastics LNP* Thermocomp*
Availability	North America
Filler / Reinforcement	Glass Fiber Reinforcement
Processing Method	Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.26 g/cm³	ASTM D792 ISO 1183
Molding Shrinkage		
Flow: 24 hr	0.10 to 0.20 %	ASTM D955
Across Flow: 24 hr	0.60 to 0.70 %	ASTM D955
Across Flow: 24 hr	0.62 %	ISO 294-4
Flow: 24 hr	0.11 %	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.16 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	7380 MPa	ASTM D638
--	7080 MPa	ISO 527-2/1
Tensile Strength		
Break	134 MPa	ASTM D638
Break	130 MPa	ISO 527-2
Tensile Elongation		
Break	6.2 %	ASTM D638
Break	6.3 %	ISO 527-2
Flexural Modulus		
--	6210 MPa	ASTM D790
--	6640 MPa	ISO 178
Flexural Strength		
--	196 MPa	ASTM D790
--	194 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	260 J/m	ASTM D256
23°C ⁴	25 kJ/m²	ISO 180/1A
Unnotched Izod Impact		
23°C	1400 J/m	ASTM D4812
23°C ⁴	88 kJ/m²	ISO 180/1U
Instrumented Dart Impact		
23°C, Energy at Peak Load	16.7 J	ASTM D3763
--	6.72 J	ISO 6603-2