

LNP Lubricomp* UFL-4036 A

SABIC Innovative Plastics - Polyphthalamide

General Information

General

Filler / Reinforcement	• Glass fiber reinforcement	
Additive	• Heat Stabilizer	• Lubricant, PTFE
Features	• Heat Stabilized	• Lubricated
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM and ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity (Method A)	1.58	1.58	ASTM D792
Density	1.56 g/cm ³	1.56 g/cm ³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.77E+6 psi	12200 MPa	ASTM D638
Tensile Strength (Break)	39300 psi	271 MPa	ASTM D638
Tensile Stress (Break)	27400 psi	189 MPa	ISO 527-1, -2
Tensile Elongation (Break)	2.1 %	2.1 %	ASTM D638
Flexural Modulus	1.73E+6 psi	11900 MPa	ASTM D790
Flexural Modulus	1.64E+6 psi	11300 MPa	ISO 178
Flexural Strength	41000 psi	283 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	2.20 ft-lb/in	117 J/m	ASTM D256
Notched Izod Impact Strength	5.71 ft-lb/in ²	12.0 kJ/m ²	ISO 180
Unnotched Izod Impact (0.125 in (3.18 mm))	17.1 ft-lb/in	913 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	541 °F	283 °C	
Heat Deflection Temperature			ISO 75A-1, -2
264 psi (1.8 MPa), Unannealed	536 °F	280 °C	

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.15 %	0.15 %
Processing (Melt) Temp	600 to 625 °F	316 to 329 °C
Mold Temperature	300 to 340 °F	149 to 171 °C
Back Pressure	25.0 to 50.0 psi	0.172 to 0.345 MPa

Notes

¹ Typical properties: these are not to be construed as specifications.