



LubriOne™ NY-30GF/17T

Polyamide 6

Key Characteristics

Product Description

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Filled • Low Friction • Lubricated • Wear Resistant
Uses	• Appliance Components • Automotive Applications • Bearings • Business Equipment • Consumer Applications • Conveyor Parts • Gears • Industrial Applications • Printer Parts • Pulleys • Rollers
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.50 to 1.54 g/cm ³	1.50 to 1.54 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.29E+6 psi	8900 MPa	ISO 527-2
Tensile Stress	21800 psi	150 MPa	ISO 527-2
Tensile Strain (Break)	< 3.0 %	< 3.0 %	ISO 527-2
Flexural Modulus	943000 psi	6500 MPa	ISO 178
Flexural Stress	29000 psi	200 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in ²	13 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	38 ft·lb/in ²	80 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Glow Wire Flammability Index 0.06 in (1.6 mm)	1380 °F	750 °C	IEC 60695-2-12

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 hr	3.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.