



LubriOne™ NY-20Mi/15T- SI natural 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	• 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 ² (73°F (23°C))	1.40 g/cm ³	1.40 g/cm ³	ISO 1183
Molding Shrinkage - Flow ³ 73°F (23°C), 0.157 in (4.00 mm)	0.50 to 0.90 %	0.50 to 0.90 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	754000 psi	5200 MPa	ISO 527-2/1
Tensile Stress Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	8990 psi	62.0 MPa	ISO 527-2/5
Tensile Strain Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 6.0 %	> 6.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	2.0 ft·lb/in ²	4.3 kJ/m ²	ISO 179
Unnotched Izod Impact Strength 73°F (23°C), Injection Molded	25 ft·lb/in ²	53 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	396 °F	202 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	225 °F	107 °C	ISO 75-2/A
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	< 3.9 in/min	< 100 mm/min	ISO 3795
Flame Rating	HB	HB	UL 94

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 518 °F	240 to 270 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

³ Bergmann method

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