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/cm³	1.40 g/cm³	ISO 1183
Molding Shrinkage - Flow [3]			ISO 294-4
73°F (23°C), 0.157 in (4.00 mm)	0.50 to 0.90 %	0.50 to 0.90 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	754000 psi	5200 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	8990 psi	62.0 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 6.0 %	> 6.0 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179
73°F (23°C), Injection Molded	2.0 ft·lb/in²	4.3 kJ/m²	
Unnotched Izod Impact Strength			ISO 180
73°F (23°C), Injection Molded	25 ft·lb/in²	53 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	396 °F	202 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	225 °F	107 °C	
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

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

CONTACT INFORMATION

Americas

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35