LubriOne™ NI-0920063 NATURAL

Polyamide 610

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	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Wear Resistant		
Uses	• Appliance Components	• Conveyor Parts	• Printer Parts
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.34	1.34	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 8.0E-3 in/in	0.10 to 0.80 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	23000 psi	159 MPa	ASTM D638
Tensile Elongation [2] (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.50E+6 psi	10300 MPa	ASTM D790
Flexural Strength	34000 psi	234 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed	392 °F	200 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82.2 °C
Drying Time	4.0 to 5.0 hr	4.0 to 5.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	420 to 450 °F	216 to 232 °C
Middle Temperature	430 to 470 °F	221 to 243 °C
Front Temperature	440 to 490 °F	227 to 254 °C
Nozzle Temperature	490 to 500 °F	254 to 260 °C
Mold Temperature	130 to 200 °F	54.4 to 93.3 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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