



LubriOne™ AS-000/02S natur

Acrylonitrile Butadiene Styrene

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	• Lubricated
Uses	• Appliance Components • Conveyor Parts • Printer Parts
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.36E+6 psi	9400 MPa	ISO 527
Tensile Stress ³ (Yield)	6530 psi	45.0 MPa	ISO 527
Tensile Strain ³ (Yield)	3.0 %	3.0 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	8.6 ft·lb/in ²	18 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ 73°F (23°C)	> 47 ft·lb/in ²	> 99 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	207 °F	97.0 °C	ISO 75-2
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	190 °F	88.0 °C	ISO 75-2
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	1.0E+13 ohms·cm	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	< 176 °F	< 80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Processing (Melt) Temp	428 to 473 °F	220 to 245 °C
Mold Temperature	104 to 140 °F	40 to 60 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.039 in/min (1 mm/min)

³ 2.0 in/min (50 mm/min)

⁴ NB