

LNP™ LUBRICOMP™ Compound RFN16SXS

Technical DataSheet | Supplied by SABIC

LNP™ LUBRICOMP™ Compound RFN16SXS is a heat stabilized polyamide 66 (PA-66) grade by SABIC, reinforced with glass fiber and MoS2. Provides lubrication, wear resistance, low friction, improved strength and stiffness. LNP™ LUBRICOMP™ Compound RFN16SXS reduces squeaks and other noises from moving parts.

Product Type	PA (Polyamide, Nylon) > PA 66 (Nylon 66)
Product Status	COMMERCIAL
Geographical Availability	Africa, Central and Eastern Europe, Middle East and Central Asia, Western Europe
Key Features	Heat stabilized Wear resistance, Good Strength, Good Filled, Glass Fiber Friction, Low Stiffness, Good Noise Damping Lubricated

LNP™ LUBRICOMP™ Compound RFN16SXS Properties

Physical	Value & Unit	Test Condition	Test Method
Specific Gravity	1.41 g/cm ³	After 48 hrs, 23°C, 50% R.H.	ISO 1183
Linear Mold Shrinkage	0.2 - 0.5 %	flow, on tensile bar	SABIC Method

Mechanical	Value & Unit	Test Condition	Test Method
Wear Factor (K)	159 10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	After 48 hrs, 23°C, 50% R.H.	ASTM D3702 Modified: Manual
Coefficient of Friction (COF)	0.43	Dynamic	ASTM D 3702 Modified: Manual

Tensile Strength	162 MPa	at Break, 5 mm/min	ISO 527
Tensile Strain	2.6 %	at Break, 5 mm/min	ISO 527
Flexural Strength	232 MPa	at Break, 2 mm/min	ISO 178
Coefficient of Friction (COF)	0.48	Static	ASTM D 3702 Modified: Manual
Flexural Modulus	8700 MPa	2 mm/min	ISO 178
Impact Strength, Unnotched Izod	40 kJ/m ²	23°C, 80*10*4	ISO 180/1U
Impact Strength, Notched Izod	6 kJ/m ²	23°C, 80*10*4	ISO 180/1A

Thermal	Value & Unit	Test Condition	Test Method
Heat Deflection Temperature (HDT)	249 °C	Af, 1.8 MPa, Flatw 80*10*4, sp=64mm	ISO 75/Af
CTE, Linear	3.2E-05 1/°C	23°C to 60°C, flow	ISO 11359-2

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