

SABIC Innovative Plastics LNP STAT-KON KEL22A Acetal Homopolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

LNP* LUBRICOMP* KEL22A is a compound based on Acetal Homopolymer resin containing Carbon Fiber, PTFE. Added features include:
Electrically Conductive, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-KEL22A-Acetal-Homopolymer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0033 cm/cm	0.0033 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	7.9 %	7.9 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	8.40 GPa	1220 ksi	1 mm/min; ISO 527
Flexural Strength	82.0 MPa	11900 psi	2 mm/min; ISO 178
Flexural Yield Strength	89.0 MPa	12900 psi	2 mm/min; ISO 178
Flexural Modulus	6.10 GPa	885 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	11.1 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	119 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	66.1 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 K°C	275 K°F	Flaw 80*10 ⁻⁴ Sp=0.4mm, ISO T5/AT

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D257

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