

SABIC Innovative Plastics LNP Lubricomp KFL36XXC Acetal Copolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer + Glass/PTFE

Material Notes:

LNP* Lubricomp* KFL36 is an Acetal containing Glass Fiber and PTFE. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-KFL36XXC-Acetal-Copolymer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D 792
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.26 %	0.26 %	23 ^o C / 50% RH; ISO 62
	0.16 %	0.16 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	5 mm/min; ISO 527
	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	84.0 MPa	12200 psi	5 mm/min; ISO 527
	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D 638
	1.3 %	1.3 %	5 mm/min; ISO 527
Elongation at Yield	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D 638
	1.3 %	1.3 %	5 mm/min; ISO 527
Tensile Modulus	10.61 GPa	1539 ksi	1 mm/min; ISO 527
	10.82 GPa	1569 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric ^{SI}	English ^{psi}	Comments
	130 MPa	18900 psi	ISO 178
Flexural Modulus	9.28 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	9.93 GPa	1440 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.500 J/cm @Temperature 23.0 Â°C	0.937 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.26 J/cm @Temperature 23.0 Â°C	6.11 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/mÂ² @Temperature 23.0 Â°C	11.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D 3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D 3702 Modified
K (wear) Factor	473 x 10 ⁻⁸ mmÂ³/N-M	235 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	65.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	163 Â°C	325 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	183 Â°C	361 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	161 Â°C	322 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	161 Â°C @Thickness 3.20 mm	322 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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