

SABIC Innovative Plastics LNP STAT-KON KEP33 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP STAT-KON* KEP33 is a compound based on Acetal resin containing 15% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-KEP33-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
	1.473 g/cc	0.05322 lb/in ³	ASTM D792
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.320 %	0.320 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	ISO 527
	77.0 MPa	11200 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.1 %	1.1 %	ASTM D638
Tensile Modulus	10.17 GPa	1475 ksi	1 mm/min; ISO 527
	10.2 GPa	1480 ksi	50 mm/min; ASTM D638
Flexural Strength	106 MPa	15400 psi	ISO 178
	114 MPa	16500 psi	ASTM D790

Flexural Modulus Mechanical Properties	7.14 GPa Metric	1040 ksi English	ASTM D790 Comments
	8.27 GPa	1200 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.28 J/cm	2.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.31	0.31	ASTM D3702 Modified
K (wear) Factor	407 x 10 ⁻⁸ mm ³ /N-M	202 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	155 Â°C	311 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	66.0 Â°C @Thickness 3.20 mm	151 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 10000 ohm-cm	10 - 10000 ohm-cm	ASTM D257
Surface Resistance	10 - 10000 ohm	10 - 10000 ohm	ASTM D257

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