

SABIC Innovative Plastics LNP STAT-KON KEP33 Acetal (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-KEP33-Acetal-Asia-Pacific.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°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	0.00070 - 0.00090 cm/cm	0.00070 - 0.00090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@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

Mechanical Properties	Metric ^P	English ⁱ	Comments ^j
	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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