

SABIC Innovative Plastics LNP STAT-KON KX02764 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP STAT-KON* KX02764 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-KX02764-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
	1.443 g/cc	0.05213 lb/in ³	ASTM D792
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	47.0 MPa	6820 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
	53.0 MPa	7690 psi	ISO 527
Elongation at Break	10.2 %	10.2 %	ASTM D638
	18.1 %	18.1 %	ISO 527
Elongation at Yield	3.8 %	3.8 %	ASTM D638
	4.0 %	4.0 %	ISO 527

Tensile Modulus Mechanical Properties	3.46 GPa Metric	502 ksi English	1 mm/min; ISO 527 Comments
	3.48 GPa	505 ksi	50 mm/min; ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ISO 178
	100 MPa	14500 psi	ASTM D790
Flexural Modulus	3.01 GPa	437 ksi	ASTM D790
	3.01 GPa	437 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.73 J/cm	6.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C	223 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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