

SABIC Innovative Plastics LNP Stat-kon KS302 Acetal Copoly

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Steel Filled

Material Notes:

LNP* Stat-kon* KS302 is a compound based on Acetal Copolymer resin containing Stainless Steel. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-KS302-Acetal-Copoly.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.50 g/cc	0.0542 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.020 - 0.030 cm/cm	0.020 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.025 cm/cm	0.025 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.030 cm/cm	0.020 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.025 cm/cm	0.025 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D 638
	52.0 MPa	7540 psi	ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D 638
	52.0 MPa	7540 psi	ISO 527
Elongation at Break	12.9 %	12.9 %	ISO 527
	38.7 %	38.7 %	ASTM D 638
Elongation at Yield	8.4 %	8.4 %	ISO 527
	9.0 %	9.0 %	ASTM D 638
Tensile Modulus	2.75 GPa	399 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric 3.03 GPa	English 438 ksi	Comments 1 mm/min, ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D 790
	4.30 GPa	624 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.81 J/cm @Temperature 23.0 Â°C	16.5 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)	49.0 kJ/mÂ² @Temperature 23.0 Â°C	23.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	118 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	65.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	119 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	66.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	108 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	60.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	108 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	60.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 Â°C	198 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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