

SABIC Innovative Plastics LNP STAT-LOY KX05015 Acetal Copolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

LNP* Stat-Loy* KX05015 is a compound based on Acetal Copolymer resin containing Antistat. Added features include permanent Anti-Static.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-KX05015-Acetal-Copolymer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Water Absorption	7.9 % @Time 86400 sec	7.9 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.028 cm/cm	0.028 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	5 mm/min; ISO 527
Elongation at Yield	18.7 %	18.7 %	5 mm/min; ISO 527
Tensile Modulus	1.40 GPa	203 ksi	1 mm/min; ISO 527
Flexural Yield Strength	48.0 MPa	6960 psi	2 mm/min; ISO 178
Flexural Modulus	1.40 GPa	203 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	157 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 60.0 $^\circ\text{C}$	87.2 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 140 $^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	160 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 60.0 $^\circ\text{C}$	88.9 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 140 $^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	124 $^\circ\text{C}$	255 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa	62.0 $^\circ\text{C}$	144 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/ Af

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

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