LNP™ STAT-LOY™ COMPOUND K3000SZ

K-E HS

DESCRIPTION

LNP STAT-LOY K3000SZ is a compound based on Acetal Copolymer resin. Added feature of this material is: AntiSstatic.

TYPICAL PROPERTY VALUES

Revision 20200205

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	41	MPa	ASTM D 638
Tensile Stress, break	31	MPa	ASTM D 638
Tensile Strain, yield	15.8	%	ASTM D 638
Tensile Strain, break	59.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	1590	MPa	ASTM D 638
Flexural Stress	48	MPa	ASTM D 790
Flexural Modulus	1440	MPa	ASTM D 790
Tensile Stress, yield	42	MPa	ISO 527
Tensile Stress, break	36	MPa	ISO 527
Tensile Strain, yield	13.3	%	ISO 527
Tensile Strain, break	49.3	%	ISO 527
Tensile Modulus, 1 mm/min	1500	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus	1500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	149	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	29	J	ASTM D 3763
Multiaxial Impact	17	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	67	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.3E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.33E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.3E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.33E-04	1/°C	ISO 11359-2
PHYSICAL			
Density	1.32	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	2.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.81	%	ISO 294

© 2020 Copyright by SABIC. All rights reserved

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	1.83	%	ISO 294
Wear Factor Washer	14	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.42	-	ASTM D 3702 Modified: Manual
Static COF	0.24	-	ASTM D 3702 Modified: Manual
Density	1.33	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

© 2020 Copyright by SABIC. All rights reserved