LNP™ STAT-KON™ COMPOUND KS000MXL

KS000MXL

DESCRIPTION

LNP* STAT-KON* KS000MXL is a compound based on Acetal resin containing Stainless Steel. Added features of this grade include: Low Extractable, Metal Detectable.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	52	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	51	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	11	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	27	%	ASTM D 638
Tensile Modulus, 5 mm/min	3010	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2680	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	52	MPa	ISO 527
Tensile Stress, break, 5 mm/min	51	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	11	%	ISO 527
Tensile Strain, break, 5 mm/min	26	%	ISO 527
Tensile Modulus, 1 mm/min	2880	MPa	ISO 527
Flexural Stress	75	MPa	ISO 178
Flexural Modulus, 2 mm/min	2590	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	929	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	5	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	57	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	158	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	104	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	9.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	149	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	95	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.73	-	ASTM D 792
Density	1.724	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.5	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL			
Surface Resistivity	1.93E+12	Ohm	ASTM D 257

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