LNP™ STAT-KON™ COMPOUND IS000XXL

IS000XXL

DESCRIPTION

LNP STAT-KON IS000XXL is a compound based on Nylon 6/12 containing Stainless Steel Fibers. Added features of this material include: Food Contact Compliant Raw Materials, Metal Detectable, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20200129

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	67	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	9.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	10.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	3040	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2670	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	66	MPa	ISO 527
Tensile Strain, break, 5 mm/min	8.5	%	ISO 527
Tensile Modulus, 1 mm/min	3070	MPa	ISO 527
Flexural Stress	82	MPa	ISO 178
Flexural Modulus, 2 mm/min	2430	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	486	J/m	ASTM D 4812
Izod Impact, notched, 23°C	27	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	2	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	35	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	180	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	92	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.02E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.19E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	161	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	72	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.18	-	ASTM D 792
Density	1.18	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1 – 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2 – 4	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.29	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	80	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	270 – 275	°C	
Front - Zone 3 Temperature	270 – 280	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	255 – 265	°C	
Mold Temperature	65 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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