LNP™ LUBRICOMP™ COMPOUND 9X06483

STN-L-4030 HS

DESCRIPTION

LNP* LUBRICOMP* 9X06483 is a compound based on a Nylon 4/6 containing PTFE. Added features of this grade are: Heat Stabilized, Weasr Resistant.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	80	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	74	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	5.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	3130	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2960	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	78	MPa	ISO 527
Tensile Stress, break, 5 mm/min	76	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.5	%	ISO 527
Tensile Strain, break, 5 mm/min	6.6	%	ISO 527
Tensile Modulus, 1 mm/min	3000	MPa	ISO 527
Flexural Stress	101	MPa	ISO 178
Flexural Modulus, 2 mm/min	2800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	924	J/m	ASTM D 4812
Izod Impact, notched, 23°C	52	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	3	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	56	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	283	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	151	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.E+02	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	9.26E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	276	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	92	°C	ISO 75/Af
PHYSICAL			
Density	1.29	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1 – 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2 – 4	%	ASTM D 955
Wear Factor Washer	11	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Wear Factor Ring	-1	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.32	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Static COF	0.32	-	ASTM D 3702 Modified: Manual
Density	1.28	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	2.7	%	ISO 62

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