LNP™ LUBRICOMP™ COMPOUND AI001XXH

DESCRIPTION

LNP* LUBRICOMP* AI001XXH is a compound based on ABS resin containing 2% Silicone. Added features of this grade include: Healthcare, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	40	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	32	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	44	%	ASTM D 638
Tensile Modulus, 50 mm/min	2220	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	60	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2270	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	38	MPa	ISO 527
Tensile Stress, break, 5 mm/min	31	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.2	%	ISO 527
Tensile Strain, break, 5 mm/min	59	%	ISO 527
Tensile Modulus, 1 mm/min	2120	MPa	ISO 527
Flexural Stress	56	MPa	ISO 178
Flexural Modulus, 2 mm/min	2110	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1380	J/m	ASTM D 4812
Izod Impact, notched, 23°C	149	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	7	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	132	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	95	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	9.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	95	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	86	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.05	-	ASTM D 792
Density	1.05	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.9	%	ASTM D 955
Wear Factor Washer	480	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Wear Factor Ring	-2	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual

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Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.43	-	ASTM D 3702 Modified: Manual
Moisture Absorption (23°C / 50% RH)	0.36	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05 – 0.1	%	
Melt Temperature	260	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	230 – 245	°C	
Rear - Zone 1 Temperature	205 – 215	°C	
Mold Temperature	70 – 80	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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