LNP™ LUBRICOMP™ COMPOUND RAL22S

RAL-4022 HS
REGION ASIA

DESCRIPTION

LNP LUBRICOMP RAL22S is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid. Added features of this material include: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181227

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	81	MPa	ASTM D 638
Tensile Strain, break	8.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	3440	MPa	ASTM D 638
Flexural Stress	110	MPa	ASTM D 790
Flexural Modulus	2960	MPa	ASTM D 790
Tensile Stress, break	79	MPa	ISO 527
Tensile Strain, break	9.5	%	ISO 527
Tensile Modulus, 1 mm/min	3500	MPa	ISO 527
Flexural Stress	117	MPa	ISO 178
Flexural Modulus	3500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	747	J/m	ASTM D 4812
Izod Impact, notched, 23°C	133	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	48	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	248	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	198	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.38E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.28E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.26E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	193	°C	ISO 75/Af
PHYSICAL			
Density	1.22	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.7	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.92	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.95	%	ISO 294
Wear Factor Washer	13	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Dynamic COF	0.55	-	ASTM D 3702 Modified: Manual
Static COF	0.46	-	ASTM D 3702 Modified: Manual
Density	1.22	g/cm³	ISO 1183

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