



LNP™ LUBRICOMP™ Compound RAL22

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound RAL-4022

Product reorder name: RAL22

LNP LUBRICOMP™ RAL22 is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	830	kgf/cm ²	ASTM D 638
Tensile Strain, break	8.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	35100	kgf/cm ²	ASTM D 638
Flexural Stress	1150	kgf/cm ²	ASTM D 790
Flexural Modulus	30200	kgf/cm ²	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	75	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	65	cm-kgf	ASTM D 3763
Multiaxial Impact	14	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	48	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	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	7.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.1E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.36E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
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/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.72	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.92	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.95	%	ISO 294
Wear Factor Washer	13	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.54	-	ASTM D 3702 Modified
Static COF	0.45	-	ASTM D 3702 Modified
Density	1.22	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.17	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	275 - 290	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm