

LNP* Lubricomp* Compound RP0049

Americas: COMMERCIAL

Also known as: LNP* Lubricomp* Compound RL-4540 FR

Product reorder name: RP0049

LNP LUBRICOMP* RP0049 is a compound based on Nylon 66 resin containing Flame Retardant, PTFE, Silicone. Added features of this material include: Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	420	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	25300	kgf/cm ²	ASTM D 638
Flexural Stress	690	kgf/cm ²	ASTM D 790
Flexural Modulus	23200	kgf/cm ²	ASTM D 790
Tensile Stress, break	37	MPa	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress	68	MPa	ISO 178
Flexural Modulus	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	21	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	41	cm-kgf	ASTM D 3763
Multiaxial Impact	8	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	168	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	100	°C	ISO 75/Af
PHYSICAL			
Density	1.49	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.47	%	ASTM D 570

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.94	%	ISO 294
Wear Factor Washer	6	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.18	-	ASTM D 3702 Modified
Static COF	0.13	-	ASTM D 3702 Modified
Density	1.49	g/cm ³	ISO 1183

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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