

LNP* Lubricomp* Compound RL0049

Americas: COMMERCIAL

Also known as: LNP* Lubricomp* Compound RL-4040 FR

Product reorder name: RL0049

LNP* Lubricomp* RL0049 is a compound based on Nylon 66 resin containing PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	470	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	32400	kgf/cm ²	ASTM D 638
Flexural Stress	770	kgf/cm ²	ASTM D 790
Flexural Modulus	31500	kgf/cm ²	ASTM D 790
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	3160	MPa	ISO 527
Flexural Stress	79	MPa	ISO 178
Flexural Modulus	2970	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	16	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	cm-kgf	ASTM D 3763
Multiaxial Impact	10	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	90	°C	ISO 75/Af
PHYSICAL			
Density	1.53	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.5	%	ASTM D 955

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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.52	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.67	%	ISO 294
Density	0.39	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