

## LNP\* Lubricomp\* Compound RL0049S

Americas: COMMERCIAL

Also known as: RL-4040 FR HS  
Product Reorder Name: RL0049S

LNP LUBRICOMP\* RL0049S is a compound based on Nylon 66 resin containing Flame Retardant, PTFE. Added features of this material include: Flame Retardant.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	47	MPa	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	3170	MPa	ASTM D 638
Flexural Stress	77	MPa	ASTM D 790
Flexural Modulus	3090	MPa	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	78	MPa	ISO 178
Flexural Modulus	2970	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	170	J/m	ASTM D 4812
Izod Impact, notched, 23°C	21	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	0	J	ASTM D 3763
Multiaxial Impact	0	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	10	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
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	Value	Unit	Standard
Density	1.53	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.38	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.52	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.67	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.55	%	ISO 62

Source GMD, last updated:09/30/2004

### Processing

Parameter	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

Source GMD, last updated:09/30/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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