



LNP™ LUBRICOMP™ Compound RFL36

Asia Pacific: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound RFL4036

Product reorder name: RFL36

LNP* Lubricomp* RFL36 is a compound based on Nylon 66 resin containing Glass Fiber, PTFE.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break, 5 mm/min	166	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.6	%	ISO 527
Flexural Stress, yield, 2 mm/min	234	MPa	ISO 178
Flexural Stress, break, 2 mm/min	277	MPa	ISO 178
Flexural Strain, break, 2 mm/min	4.1	%	ISO 178
Flexural Modulus, 2 mm/min	7200	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	6.1	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	6.6	%	ISO 178
Flexural Strain, break, 2 mm/min, 150°C	5.6	%	ISO 178
Flexural Strain, break, 2 mm/min, 200°C	6.3	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	179	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	131	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 150°C	96	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 200°C	83	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	5300	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	4200	MPa	ISO 178
Flexural Modulus, 2 mm/min, 150°C	3500	MPa	ISO 178
Flexural Modulus, 2 mm/min, 200°C	3100	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*3 -40°C	12	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	84	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	74	kJ/m ²	ISO 180/1U



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IMPACT			
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1A
THERMAL			
Specific Heat	1988	J/kg-K	ASTM E 1269
CTE, 23°C to 60°C, flow	2.5E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	7.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	>220	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	>220	°C	ISO 75/Af
Thermal Conductivity	0.25	W/m-K	ASTM D 5930
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.05	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.44	%	ISO 294
Wear Factor Washer	12	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.59	-	ASTM D 3702 Modified: Manual
Density	1.51	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	1.34	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.46	%	ISO 62
Melt Volume Rate, MVR at 275°C/5 kg	15 - 20	cm ³ /10 min	ISO 1133
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.5	mm	UL 94



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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	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm