

## LNP\* Lubricomp\* Compound PFL36

Asia Pacific: COMMERCIAL

Also known as: PFL-4036  
Product Reorder Name: PFL36

LNP\* Lubricomp\* PFL36 is a compound based on Nylon 6 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	110	MPa	ASTM D 638
Tensile Stress, break	109	MPa	ASTM D 638
Tensile Strain, yield	5.8	%	ASTM D 638
Tensile Strain, break	6.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	8270	MPa	ASTM D 638
Flexural Modulus	5510	MPa	ASTM D 790
Tensile Stress, yield	113	MPa	ISO 527
Tensile Stress, break	113	MPa	ISO 527
Tensile Strain, yield	4.1	%	ISO 527
Tensile Strain, break	4.4	%	ISO 527
Tensile Modulus, 1 mm/min	7880	MPa	ISO 527
Flexural Stress	172	MPa	ISO 178
Flexural Modulus	7000	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1089	J/m	ASTM D 4812
Izod Impact, notched, 23°C	149	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	19	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	79	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	216	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	216	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	202	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.51	g/cm <sup>3</sup>	ISO 1183

Source GMD, last updated:09/24/2008

### Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	265 - 275	°C
Front - Zone 3 Temperature	275 - 290	°C

Middle - Zone 2 Temperature	265 - 275	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/24/2008

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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