

LNP* Lubricomp* Compound SFP36

Americas: COMMERCIAL

Also known as: LUBRICOMP SFL-4536
Product Reorder Name: SFP36

LNP* Lubricomp* SFP36 is a Nylon 12 compound containing Glass Fiber and PTFE/Silicone. Characteristics of this grade are Internally Lubricated.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	125	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	117	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	9060	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	178	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	176	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7510	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	129	MPa	ISO 527
Tensile Stress, break, 5 mm/min	129	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.9	%	ISO 527
Tensile Strain, break, 5 mm/min	3	%	ISO 527
Tensile Modulus, 1 mm/min	9070	MPa	ISO 527
Flexural Stress	191	MPa	ISO 178
Flexural Modulus, 2 mm/min	7920	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1000	J/m	ASTM D 4812
Izod Impact, notched, 23°C	146	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	9	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	58	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	177	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	172	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	177	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	169	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.39	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Density	1.38	g/cm ³	ISO 1183

Source GMD, last updated:2009/04/21

Processing

Parameter

Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:2009/04/21

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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