

LNP* Lubricomp* Compound EFP36G

Americas: COMMERCIAL

Also known as: LUBRICOMP EFL-4536 MG
Product Reorder Name: EFP36G

LNP* EFP36G is a Polyetherimide base resin containing a Mixed Glass Fiber and PTFE/Silicone.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	107	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	11440	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	161	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8580	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	96	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	11760	MPa	ISO 527
Flexural Stress	164	MPa	ISO 178
Flexural Modulus, 2 mm/min	8450	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	408	J/m	ASTM D 4812
Izod Impact, notched, 23°C	76	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
Instrumented Impact Total Energy, 23°C	12	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	202	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	209	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.2E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	204	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.59	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Wear Factor Washer	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0 - 0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Density	1.59	g/cm ³	ISO 1183

Source GMD, last updated:11/25/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120 - 150	°C

Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

Source GMD, last updated:11/25/2008

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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