

FORMPOLY® N6GF30 U

(30% Glass Fibre Reinforced Nylon6-UL Certified Grade)

GENERAL

FPL offers a range of Nylon6 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® N6GF30 U**, which is Underwriters Laboratory certified - heat stabilized, lubricated Glass Fibre Reinforced Nylon 6 with excellent mechanical / thermal properties and reduced shrinkage.

FORMPOLY® N6GF30 U

Increased Toughness
Lubricated and heat stabilized
High mechanical properties
Excellent dimensional stability
Low water absorption

PRE-DRYING

FPL grades can normally be taken for direct processing. However, in case the material is exposed to atmosphere, it is advisable to pre-dry the material at 100°C for 2 to 3 hours for good surface finish.

PACKING

FORMPOLY® N6GF30 U is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

- Miniature Electronic Parts
- Switch Assembly
- Housing for Electronic / Electrical
- Radiator Fans
- Instrument Housing

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	175
Elongation at Break	D638	%	4
Flexural Stress	D790	MPa	250
Flexural Modulus	D790	MPa	8000
Izod Impact Strength Notched	D256	kg. cm/ cm	13
Heat Deflection Temp			
- at 4.6 kg/cm ² load	D648	°C	220
- at 18.5 kg/cm ² load			200
Specific Gravity	D792	-	1.36
Shrinkage	D955	%	0.15-0.3
Volume Resistivity	D-257	Ohms-cm	10E15
Surface Resistivity	D-257	Ohms	10E14
Flame Rating	UL 94	Ratings	HB

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen Coloured grades would record slightly lower mechanical properties as permitted by ASTM D-4066

The information present here is for general guidance. It is given in good faith but no warrant is attached

FORMULATED POLYMERS LIMITED

Manufacturers of Engineering Plastics Compounds

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ISO 9001:2015, IATF 16949: 2009 & ISO 14001: 2015 Certified Firm





Component - Plastics
File Number: E339825

FORMULATED POLYMERS LTD
59 SIDCO INDUSTRIAL ESTATE, THIRUMAZHISAI, CHENNAI TN 600124 IN



FORMPOLY: N6GF30 U

Polyamide 6 (PA6), pellets, glass reinforced

NOTE - Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.

Flammability	Value	Test Method
Flame Rating		
0.8 mm, ALL	HB	UL 94
1.5 mm, ALL	HB	UL 94
3.0 mm, ALL	HB	UL 94
3.0 mm, ALL	HB40	IEC 60695-11-10, -20
0.8 mm, ALL	HB75	IEC 60695-11-10, -20
1.5 mm, ALL	HB75	IEC 60695-11-10, -20
Electrical	Value	Test Method
Hot-wire Ignition (HWI) (3.0 mm)	PLC 4	UL 748
High Amp Arc Ignition (HAI) (3.0 mm)	PLC 0	UL 748
Comparative Tracking Index (CTI)	PLC 0	UL 748
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 748
0.8 mm	65.0°C	
1.5 mm	65.0°C	
3.0 mm	65.0°C	
RTI Imp		UL 748
0.8 mm	65.0°C	
1.5 mm	65.0°C	
3.0 mm	65.0°C	
RTI Str		UL 748
0.8 mm	65.0°C	
1.5 mm	65.0°C	
3.0 mm	65.0°C	

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