

# FORMPOLY® N6GF30L (30% Glass Fibre Reinforced Nylon 6)

## GENERAL

FPL offers a range of Nylon6 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® N6GF30L**, which is heat stabilized, lubricated, glass fibre reinforced Nylon 6 with excellent mechanical / thermal properties and reduced shrinkage.

### FORMPOLY® N6GF30L

Increased Toughness  
Lubricated and heat stabilized  
High mechanical properties  
Excellent dimensional stability  
Low Moisture 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® N6GF30L** is supplied in 25 Kg dry, ready to mould, in sealed bags to prevent the uptake of moisture.

## APPLICATION

Drive pulley  
Switch assembly  
Housing for power tool  
Radiator fans  
Instrument Housing

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	170
Elongation at Break	D638	%	4
Flexural Stress	D790	MPa	250
Flexural Modulus	D790	MPa	8000
Izod Impact Strength, Notched	D256	kg cm/cm	12
Heat Deflection Temp - at 4.6 kg / cm <sup>2</sup> load	D648	°C	220
- at 18.5 kg / cm <sup>2</sup> load	D648	°C	210
Specific Gravity	D792	-	1.36
Shrinkage	D955	%	0.15-0.3
Volume Resistivity	D257	Ohms-cm	10E15
Surface Resistivity	D257	Ohms	10E14

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

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