

# FORMPOLY SN66GF30LT

## (30% Glass Fibre Reinforced Nylon66)

### GENERAL

FPL offers a range of Nylon66 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® SN66GF30LT**, which is heat stabilized, lubricated Glass Fibre Reinforced Nylon 66 with excellent mechanical / thermal properties and reduced shrinkage.

### **FORMPOLY® SN66GF30LT**

Easy flow and Fast solidification  
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 4 hours for good surface finish.

### PACKING

**FORMPOLY® SN66GF30LT** is supplied in 25 Kg dry, ready to mould, in sealed bags to prevent the uptake of moisture.

### APPLICATION

Radiator fans  
Radiator shroud  
Instrument Housings  
Switch assembly

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	185
Elongation at Break	D638	%	4
Tensile Modulus	D638	Mpa	10550
Flexural Stress	D790	MPa	270
Flexural Modulus	D790	MPa	9000
Izod Impact Strength Notched	D256	kg.cm/cm	13
Heat Deflection Temp			
- at 4.6 kg/cm <sup>2</sup> load	D648	°C	260
- at 18.5 kg/cm <sup>2</sup> load	D648	°C	250
Specific Gravity	D792	-	1.38
Shrinkage	D955	%	0.1-0.3
Mould Shrinkage(parallel)	D955	%	0.3
Mould Shrinkage(perpendicular)	D955	%	1.1
Volume Resistivity	D-257	Ohms-cm	10 <sup>15</sup>
Flammability(0.8,1.6,3.0mm)	UL 94	HB	HB
RTI			
1.5mm	UL746B	°C	104
3.0mm	UL746B	°C	119

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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PROCESS PARAMETERS	
Drying Temperature	75 - 85°C
Drying Time	2-4 hrs
Rear Temperature	275 - 285°C
Middle Temperature	275 - 285°C
Front Temperature	270 - 285°C
Nozzle Temperature	280 -300°C
Processing (Melt) Temp	275 - 285°C
Throat Temperature	60 – 80°C
Mold Temperature	60 - 90°C

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