

**FORMPOLY® SN6GF30HSL****(30% Glass Fibre Reinforced Nylon6- Heat Stabilized)****GENERAL**

FPL offers a range of Nylon 6 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® SN6GF30HSL**, which is heat stabilized, lubricated Glass Fibre Reinforced Nylon 6 with excellent mechanical / thermal properties and reduced shrinkage.

**FORMPOLY® SN6GF30HSL**

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® SN6GF30HSL** 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	180
Elongation at Break	D638	%	4
Tensile Modulus	D638	MPa	9500
Flexural Stress	D790	MPa	260
Flexural Modulus	D790	MPa	9000
Charpy Impact Strength Notched	D6110	kg.cm/cm	13
Heat Deflection Temp - at 4.6 kg / cm <sup>2</sup> load	D648	°C	220
- at 18.5 kg / cm <sup>2</sup> load		°C	205
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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**ISO 9001:2015, IATF 16949: 2009 & ISO 14001: 2015 Certified Firm**

