

# FORMPOLY SN66GF45LT (45%Glass Fibre Reinforced Nylon66)

### GENERAL

FPL offers a range of Nylon66 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY SN66GF45LT**, which is heat stabilized, lubricated Glass Fibre Reinforced Nylon 66 with very high mechanical / thermal properties and reduced shrinkage.

#### **FORMPOLY SN66GF45LT**

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 3 hours for good surface finish.

### PACKING

**FORMPOLY SN66GF45LT** is supplied in 25 Kg dry, ready to mould, in sealed bags to prevent the uptake of moisture.

### APPLICATION

Magnet cover  
Bearing cages  
Terminal Blocks  
Switch assembly  
Housings

| Property                            | ASTM Method | Unit      | Value            |
|-------------------------------------|-------------|-----------|------------------|
| Tensile Stress                      | D638        | MPa.      | 190              |
| Elongation at Break                 | D638        | %         | 2.5              |
| Flexural Stress                     | D790        | MPa.      | 275              |
| Flexural Modulus                    | D790        | MPa.      | 12500            |
| Izod Impact Strength<br>Notched     | D256        | Kg Cm/ Cm | 13               |
| Heat Deflection Temp                |             |           |                  |
| - at 4.6 Kg / Cm <sup>2</sup> load  | D648        | 'C        | 250              |
| - at 18.5 Kg / Cm <sup>2</sup> load |             |           | 245              |
| Specific Gravity                    | D792        | -         | 1.50             |
| Shrinkage                           | D955        | %         | 0.1 - 0.3        |
| Volume Resistivity                  | D-257       | Ohms-cm   | 10 <sup>15</sup> |
| Surface Resistivity                 | D-257       | Ohms      | 10 <sup>14</sup> |

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen  
Pigmented color would record 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**

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