

FORMPOLY® N46CF15L

(15% Carbon Fibre Reinforced Nylon46)

GENERAL

FPL offers a range of Nylon46 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® N46CF15L**, which is Carbon Fibre Reinforced Nylon 46 with heat stabilization.

FORMPOLY® N46CF15L

Excellent Electrical Conductivity
Lubricated and heat stabilized
High mechanical properties
Excellent dimensional stability
Good surface finish

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 4 to 5 hours for good surface finish.

PACKING

FORMPOLY® N46CF15L is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

Electrical conductive parts
Automotive inner and outer parts
Gears, Housing
High temperature resistance parts

| Property | ASTM Method | Unit | Value |
|-----------------------------------|-------------|----------|---------|
| Tensile Stress | D638 | MPa | 180 |
| Elongation at Break | D638 | % | 2 |
| Tensile Modulus | D638 | MPa | 13000 |
| Flexural Modulus | D790 | MPa | 10800 |
| Izod Impact Strength Notched | D256 | kg.cm/cm | 5/12 |
| Heat Deflection Temp | | | |
| - at 4.6 kg/cm ² load | D648 | °C | 290 |
| - at 18.5 kg/cm ² load | | | 290 |
| Specific Gravity | D792 | - | 1.22 |
| Shrinkage | D955 | % | 0.2-0.4 |
| Melt Temperature | D2117 | °C | 295 |
| Water absorption | D570 | % | 3.10 |

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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