

30% Glass Fiber Reinforced Nylon 66 Rod

Formula: PA 6,6 30% GFR

Diameter: 30mm

Length: 500mm

Colour: Black

UOM Code: 085-461-26

SKU: 1000012272-group

Product Code: AM36-RD-000130

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Poor
Acids - dilute	Poor
Alcohols	Good
Alkalis	Good-Fair
Aromatic hydrocarbons	Good
Greases and Oils	Good
Halogenated Hydrocarbons	Good-Poor
Halogens	Poor
Ketones	Good-Poor

Electrical Properties

Element	Value
Dielectric constant @1MHz	3.9-5.7
Volume resistivity(Ohmcm)	10^{12} - 10^{17}

Physical Properties

Element	Value
Flammability	HB
Limiting oxygen index(%)	22
Water absorption - over 24 hours(%)	01-May
Density(gcm ³)	1.4

Mechanical Properties

Element	Value
Hardness - Rockwell	M84-92
Poisson's ratio	0.34-0.36
Elongation at break(%)	5
Compressive modulus(GPa)	6.6-7.2
Tensile modulus(GPa)	6.1-7.6
Izod impact strength(J m ²)	120
Tensile strength(MPa)	142-156

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	257
Heat-deflection temperature - 1.8MPa(C)	252
Upper working temperature(C)	80-200
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.23@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	30-60

Pultrusions

Element	Value
Compressive strength(MPa)	170-188