

30% Carbon Fiber Reinforced Nylon 66 Granules

Formula: PA 6, 6 - 30% CFR

Nominal Granule Size: 3mm

Weight: 1000g

Type: Injection Moulding

Colour: Black

UOM Code: 405-021-79

SKU: 1000029180-group

Product Code: AM39-GL-000110

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

Physical Properties

Element	Value
Flammability	HB
Limiting oxygen index(%)	22
Water absorption - over 24 hours(%)	0.1
Density(gcm ³)	1.28

Mechanical Properties

Element	Value
Elongation at break(%)	2

Element	Value
Tensile modulus(GPa)	24
Tensile strength(MPa)	260

Thermal Properties

Element	Value
Heat-deflection temperature - 1.8MPa(C)	260
Upper working temperature(C)	120-200
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.51
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	14

Electrical Properties

Element	Value
Surface resistivity(Ohm/sq)	10 ³
Volume resistivity(Ohmcm)	10 ²