

30% Glass Fiber Filled Polycarbonate Rod

Formula: PC - 30% GFR

Diameter: 20mm

Length: 1000mm

UOM Code: 763-761-88

SKU: 1000045355-group

Product Code: CT33-RD-000120

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	3.3
Dissipation factor @ 1MHz	0.009
Dielectric strength(kV mm ⁻¹)	30
Surface resistivity(Ohm/sq)	10 ¹²
Volume resistivity(Ohmcm)	10 ¹²

Physical Properties

Element	Value
Flammability	V-1
Water absorption(%)	0.28
Water absorption - equilibrium(%)	0.11

Element	Value
Density(gcm ³)	1.43

Mechanical Properties

Element	Value
Elongation at break(%)	3
Tensile modulus(GPa)	5.8
Tensile strength(MPa)	70

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	147
Heat-deflection temperature - 1.8MPa(C)	142
Upper working temperature(C)	140
Specific heat(J K ⁻¹ kg ⁻¹)	1080
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.26
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	30