35% Glass Fiber filled PPA Granules

Discover Goodfellow's 35% Glass Fiber Filled PPA Granules, providing high strength and stiffness for scientific applications. Buy online today. **SKU:** 1000086326-group
Product Code: PH35-GL-000100

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
Dissipation factor @ 1MHz	120
Dielectric strength(kV mm?^{1})	36
Surface resistivity(Ohm/sq)	10^{13}
Volume resistivity(Ohmcm)	10^{12}

Physical Properties

Element	Value
Flammability	HB
Radiation resistance	Fair
Resistance to Ultra-violet	Poor
Limiting oxygen index(%)	24
Density(gcm?^{3})	1.47

Mechanical Properties

Element	Value
Elongation at break(%)	2.2-2.4
Tensile modulus(GPa)	12
Izod impact strength(J m?¹)	11000
Tensile strength(MPa)	210-220

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	284
Heat-deflection temperature - 1.8MPa(C)	264
Upper working temperature(C)	100-220
Specific heat(J K?¹ kg?¹)	1860
Thermal conductivity(W m?¹ K?¹)	0.25
Coefficient of thermal expansion(x10?? K?¹)	18-55

Pultrusions

Element	Value
Compressive strength(MPa)	265