

35% glass Fiber filled PPA Granules

Formula: PPA

Nominal Granule Size: 3mm

Weight: 500g

Type: Injection Moulding

Colour: Natural

UOM Code: 210-490-51

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 ²)	36
Surface resistivity(Ohm/sq)	10 ¹³
Volume resistivity(Ohmcm)	10 ¹²

Physical Properties

Element	Value
Flammability	HB

Element	Value
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 ⁻⁵ K ⁻¹)	18-55

Pultrusions

Element	Value
Compressive strength(MPa)	265