

40% Glass Fiber Reinforced PPS Granules

Formula: PPS - 40% GFR

Nominal Granule Size: 3mm

Weight: 100g

Type: Injection Moulding

UOM Code: 004-126-92

SKU: 1000000526-group

Product Code: SU31-GL-000100

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	3.8-4.2
Dissipation factor @ 1MHz	0.0013-0.004
Dielectric strength(kV mm ²¹)	18
Surface resistivity(Ohm/sq)	10 ^{1?}
Volume resistivity(Ohmcm)	10 ^{1?}

Physical Properties

Element	Value
Flammability	V0

Element	Value
Radiation resistance	Good
Resistance to Ultra-violet	Good
Limiting oxygen index(%)	46
Water absorption - over 24 hours(%)	0.05
Density(gcm ³)	1.66

Mechanical Properties

Element	Value
Hardness - Rockwell	R123
Elongation at break(%)	1.2
Tensile modulus(GPa)	7.6-12
Izod impact strength(J m ⁻¹)	75-80
Tensile strength(MPa)	124-160

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	>260
Heat-deflection temperature - 1.8MPa(C)	240
Upper working temperature(C)	200-260
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.29-0.45@23°C
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	22-35