

PEKK Granules

Formula: PEKK

Nominal Granule Size: 3mm

Weight: 100g

Viscosity: Medium Viscosity

Structure: Semi Crystalline

Colour: Natural

CAS Number: 29658-26-2

UOM Code: 035-028-97

SKU: 1000004625-group

Product Code: EK31-GL-000102

Material Properties for Polymers

Mechanical Properties

Element	Value
Coefficient of friction	0.26
Hardness - Rockwell	M88
Elongation at break(%)	12
Tensile modulus(GPa)	4.5
Izod impact strength(J m ²¹)	69
Tensile strength(MPa)	110

Electrical Properties

Element	Value
Dielectric constant @ 1kHz	3.3
Dissipation factor @ 1kHz	0.004
Dielectric strength(kV mm ²¹)	23.6
Surface resistivity(Ohm/sq)	2x10 ¹²
Volume resistivity(Ohmcm)	10 ¹²

Physical Properties

Element	Value
Flammability	V-0

Element	Value
Radiation resistance	Good
Water absorption - over 24 hours(%)	0.2
Density(gcm ³)	1.31

Thermal Properties

Element	Value
Heat-deflection temperature - 1.8MPa(C)	175
Upper working temperature(C)	260
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.25
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	38

Pultrusions

Element	Value
Compressive strength(MPa)	206