

20% Carbon Fiber Reinforced PPS Granules

Formula: PPS - 20% CFR

Nominal Granule Size: 3mm

Weight: 200g

Type: Injection Moulding

Colour: Black

UOM Code: 008-595-29

SKU: 1000001185-group

Product Code: SU35-GL-000110

Material Properties for Polymers

Chemical Resistance

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

Physical Properties

Element	Value
Flammability	V-0
Water absorption - over 24 hours(%)	0.05
Density(gcm ³)	1.41

Mechanical Properties

Element	Value
Elongation at break(%)	2
Tensile modulus(GPa)	17
Izod impact strength(J m ⁻¹)	53

Element	Value
Tensile strength(MPa)	180

Thermal Properties

Element	Value
Heat-deflection temperature - 1.8MPa(C)	260
Upper working temperature(C)	220
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.47
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	15

Electrical Properties

Element	Value
Surface resistivity(Ohm/sq)	10 ³
Volume resistivity(Ohmcm)	10 ³