

# 10% Carbon Fiber Reinforced POM/Acetal Copolymer Granules

**Formula:** POMC - 10% CFR

**Nominal Granule Size:** 3mm

**Weight:** 2000g

**Type:** Injection Moulding

**Colour:** Black

**UOM Code:** 109-463-58

**SKU:** 1000022152-group

**Product Code:** OX33-GL-000110

## Material Properties for Polymers

### Chemical Resistance

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

### Physical Properties

Element	Value
Flammability	HB
Water absorption - over 24 hours( % )	0.1
Density( gcm <sup>3</sup> )	1.43

### Mechanical Properties

Element	Value
Elongation at break( % )	1.2

<b>Element</b>	<b>Value</b>
Tensile modulus( GPa )	8
Izod impact strength( J m <sup>-1</sup> )	59
Tensile strength( MPa )	70

### **Thermal Properties**

<b>Element</b>	<b>Value</b>
Upper working temperature( C )	100
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	0.4
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	60

### **Electrical Properties**

<b>Element</b>	<b>Value</b>
Surface resistivity( Ohm/sq )	10 <sup>3</sup>
Volume resistivity( Ohmcm )	10 <sup>7</sup>