

# Vectra® A430 Vectra® A 25% PTFE Filled Fiber Rod

**Grade:** Vectra® A430

**Formula:** Vectra A® - 25% PTFE

**Diameter:** 20mm

**Length:** 1000mm

**Colour:** Black

**UOM Code:** 237-445-38

**SKU:** 1000085972-group

**Product Code:** ET37-RD-000140

## Material Properties for Polymers

### Electrical Properties

Element	Value
Dielectric constant @ 1MHz	2.7
Dissipation factor @ 1MHz	0.016
Dielectric strength( kV mm <sup>?1</sup> )	36
Surface resistivity( Ohm/sq )	10 <sup>1?</sup>
Volume resistivity( Ohmcm )	10 <sup>12</sup>

### Physical Properties

Element	Value
Flammability	V0
Density( gcm <sup>?3</sup> )	1.5

### Mechanical Properties

Element	Value
Hardness - Rockwell	M55
Elongation at break( % )	6
Compressive modulus( GPa )	6
Tensile modulus( GPa )	7
Izod impact strength( J m <sup>?1</sup> )	67

<b>Element</b>	<b>Value</b>
Tensile strength( MPa )	160

### **Thermal Properties**

<b>Element</b>	<b>Value</b>
Heat-deflection temperature - 0.45MPa( C )	227
Heat-deflection temperature - 1.8MPa( C )	165
Coefficient of thermal expansion( $\times 10^{-6} \text{ K}^{-1}$ )	1

### **Pultrusions**

<b>Element</b>	<b>Value</b>
Compressive strength( MPa )	38