

# PVDC Powder

**Formula:** PVDC

**Mean Particle Size:** 180 $\mu$ m

**Weight:** 2000g

**CAS Number:** 9002-85-1

**UOM Code:** 028-030-25

**SKU:** 1000003425-group

**Product Code:** CV30-PD-000110

## Material Properties for Polymers

### Chemical Resistance

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

### Mechanical Properties

Element	Value
Coefficient of friction	0.24
Hardness - Rockwell	R98-106
Tensile modulus( GPa )	0.3-0.55
Izod impact strength( J m <sup>21</sup> )	16-53
Tensile strength( MPa )	25-110

### Electrical Properties

Element	Value
Dielectric constant @1MHz	03-Jun
Surface resistivity( Ohm/sq )	10 <sup>12</sup> -10 <sup>13</sup>
Volume resistivity( Ohmcm )	10 <sup>12</sup> -10 <sup>17</sup>

## Physical Properties

Element	Value
Radiation resistance	Fair
Resistance to Ultra-violet	Poor
Limiting oxygen index( % )	60
Water absorption - over 24 hours( % )	0.1
Density( gcm <sup>3</sup> )	1.63

## Thermal Properties

Element	Value
Upper working temperature( C )	80-100
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	0.13@23°C
Coefficient of thermal expansion( x10 <sup>-4</sup> K <sup>-1</sup> )	190