

# PVF Coil

**Formula:** PVF

**Thickness:** 0.025mm

**Coil Width:** 300mm

**Length:** 0.5m

**Colour:** Natural

**CAS Number:** 24981-14-4

**UOM Code:** 142-952-70

**SKU:** 1000045337-group

**Product Code:** FV33-FM-000125

## Material Properties for Polymers

### Electrical Properties

Element	Value
Dielectric constant @ 1kHz	8
Dissipation factor @ 1kHz	0.04
Dielectric strength( kV mm <sup>2</sup> )	20
Volume resistivity( Ohmcm )	10 <sup>13</sup>

### Physical Properties

Element	Value
Flammability	V0
Refractive index	1.46
Resistance to Ultra-violet	Excellent
Limiting oxygen index( % )	35
Water absorption - over 24 hours( % )	0.05
Density( gcm <sup>3</sup> )	1.37-1.39

### Mechanical Properties

Element	Value
Hardness - Rockwell	D80 - Shore
Poisson's ratio	0.4
Elongation at break( % )	90-250

<b>Element</b>	<b>Value</b>
Tensile modulus( GPa )	2.1-2.6
Izod impact strength( J m <sup>-1</sup> )	180
Tensile strength( MPa )	55-110
Tear strength( N mm <sup>-1</sup> )	130-200 (initial)

## **Thermal Properties**

<b>Element</b>	<b>Value</b>
Heat-deflection temperature - 0.45MPa( C )	120
Heat-deflection temperature - 1.8MPa( C )	80
Lower working temperature( C )	-70
Upper working temperature( C )	150-200
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	1000-1800
Coefficient of thermal expansion( x10 <sup>-5</sup> K <sup>-1</sup> )	50-97