

PVF Film

Formula: PVF

Thickness: 0.05mm

Length 1: 100mm

Length 2: 100mm

CAS Number: 24981-14-4

UOM Code: 977-886-40

SKU: 1000116257-group

Product Code: FV33-FM-000150

Material Properties for Polymers

Electrical Properties

Element	Value
Dielectric constant @ 1kHz	8
Dissipation factor @ 1kHz	0.04
Dielectric strength(kV mm ⁻¹)	20
Volume resistivity(Ohmcm)	10 ¹³

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 ⁻³)	1.37-1.39

Mechanical Properties

Element	Value
Hardness - Rockwell	D80 - Shore
Poisson's ratio	0.4
Elongation at break(%)	90-250
Tensile modulus(GPa)	2.1-2.6

Element	Value
Izod impact strength(J m ²)	180
Tensile strength(MPa)	55-110
Tear strength(N mm ²)	130-200 (initial)

Thermal Properties

Element	Value
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 ⁻¹ kg ⁻¹)	1000-1800
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	50-97