

Copolymer PVC (Unplasticized) Disk

Grade: Copolymer

Formula: UPVC

Thickness: 0.38mm

Diameter: 25mm

Colour: Clear

CAS Number: 9002-86-2

UOM Code: 044-073-31

SKU: 1000006127-group

Product Code: CV31-FM-000150

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	2.7-3.1
Dissipation factor @ 1kHz	0.025
Dielectric strength(kV mm ²¹)	14
Volume resistivity(Ohmcm)	10 ^{1?}

Physical Properties

Element	Value
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Flammability	V0
Radiation resistance	Fair
Refractive index	1.54
Resistance to Ultra-violet	Good
Limiting oxygen index(%)	42
Water absorption - over 24 hours(%)	0.03-0.4
Density(gcm ³)	1.4

Mechanical Properties

Element	Value
Hardness - Rockwell	R106-120
Elongation at break(%)	60
Tensile modulus(GPa)	2.5-4
Izod impact strength(J m ²)	20-1000
Tensile strength(MPa)	25-70

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	70
Heat-deflection temperature - 1.8MPa(C)	67
Lower working temperature(C)	-30
Upper working temperature(C)	50-75
Specific heat(J K ⁻¹ kg ⁻¹)	1000-1500
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.12-0.25@23°C
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	75-100