

Cellulose Acetate Butyrate Film

Formula: CAB

Thickness: 1mm

Length 1: 100mm

Length 2: 100mm

CAS Number: 9004-36-8

UOM Code: 303-546-58

SKU: 1000001701-group

Product Code: AC30-SH-000100

Material Properties for Polymers

Physical Properties

Element	Value
Abbe number	80-84
Flammability	HB
Radiation resistance	Fair
Refractive index	1.478
Resistance to Ultra-violet	Good
Limiting oxygen index(%)	17
Water absorption - over 24 hours(%)	0.9-2.2
Density(gcm ³)	1.2

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	2.5-6.2
Dissipation factor @ 1kHz	0.04
Dielectric strength(kV mm ⁻¹)	10
Volume resistivity(Ohmcm)	10 ¹¹ -10 ¹⁷

Mechanical Properties

Element	Value
Hardness - Rockwell	99
Elongation at break(%)	60
Tensile modulus(GPa)	0.3-2
Izod impact strength(J m ⁻¹)	260
Tensile strength(MPa)	20-60

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	73
Heat-deflection temperature - 1.8MPa(C)	62
Lower working temperature(C)	-40
Upper working temperature(C)	60-100
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.16-0.32@23°C
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	140