Cellulose Acetate Coil

Formula: CA
Thickness: 0.1mm
Coil Width: 1350mm
Length: 0.1m
Category: Green Production
Type: Biodegradable
Colour: Clear
CAS Number: 9004-35-7
UOM Code: 108-028-74
SKU: 1000001839-group
Product Code: AC31-FM-000100

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @1MHz	~5
Dissipation factor @ 1kHz	0.06
Dielectric strength(kV mm?^{1})	11
Volume resistivity(Ohmcm)	5 x 10^{12}

Physical Properties

Element	Value
Flammability	HB
Radiation resistance	Fair
Refractive index	1.49
Resistance to Ultra-violet	Fair
Limiting oxygen index(%)	19
Water absorption - over 24 hours(%)	1.9-7
Density(gcm?³)	1.3

Mechanical Properties

Element	Value
Hardness - Rockwell	34-125
Tensile modulus(GPa)	01-Apr
Izod impact strength(J m?¹)	100-450
Abrasive resistance - ASTM D1044(mg/1000 cycles)	65
Tensile strength(MPa)	12-110

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	52-105
Heat-deflection temperature - 1.8MPa(C)	48-86
Lower working temperature(C)	-20
Upper working temperature(C)	55-95
Specific heat(J K?¹ kg?¹)	1200-1900
Thermal conductivity(W m?¹ K?¹)	0.16-0.36@23°C
Coefficient of thermal expansion(x10?? K?¹)	80-180