

### Applications

- Pneumatic system traps
- Sign panels
- Packaging, tubing
- Machine guards
- Glazing

### Advantages

- FDA compliant
- Low water absorption
- Ease of fabrication
- UV resistant
- Good clarity
- Impact resistant
- Manufactured from a renewable resource (wood pulp)

### Performance Characteristics

FDA Compliant, Weather Resistant

### Butyrate

#### Cellulose Acetate Butyrate [ Cellulose Acetate Butyrate ]

Cellulose Acetate Butyrate (CAB), commonly known as butyrate, is resistant to ultraviolet rays, has a lower moisture absorption than acetate and has an extremely high impact strength.

Cellulosics, as a group, are characterized by good strength, toughness, and high surface gloss. In addition, they have good chemical resistance, good clarity, sparkle, and will take decoration readily. Cellulose acetate butyrate is tougher than acetate and has lower moisture absorption. It resists weathering and has excellent transparency. Although it is adversely affected by alcohol, alkalis, paint removers, and acetones, it is resistant to most household chemicals. Additionally, CAB is resistant to the harmful effects of ultra-violet radiation.

### Brand Names

Tenite®, Uvex®, Excelon®, Spartech®

*Emco Industrial Plastics doesn't claim to represent all of the manufacturers or trade name products listed. This list is intended as a guide of typical materials available for purchase from Emco Industrial Plastics, Inc. For additional information, contact an Emco Industrial Plastics representative at (800) 292-9906.*

### Availability

TYPE	SIZE	LENGTH	COLOR
<b>Sheet</b>	0.060" - 0.25" TH	Std sheet sizes; CTS	Clear
<b>Tube</b>	1/16" ID - 6" ID; 1/8" - 6" OD; wall thicknesses vary	Std foot lengths; CTS	Clear
<b>Film</b>	0.003" - 0.030" TH		Clear
<b>Other</b>	Tube-Pak polyethylene caps available to fit most OD sizes		

**Give us your cut-to-size dimensions. We will precision-cut these plastics to your exact size. Additional sizes and colors available upon request.**

### Properties

PHYSICAL PROPERTIES	UNITS	ASTM	RESULTS
Density	lb/in <sup>3</sup>	D792	0.0419 - 0.0473
Water Absorption, 24 hrs	%	D570	1.20 - 2.1
MECHANICAL PROPERTIES	UNITS	ASTM	RESULTS
Tensile Strength @yield	psi	D638	2,490 - 6,300
Tensile Elongation @Break	%	D638	35.0 - 55.0
Flexural Strength	psi	D790	3,100 - 9,430
Flexural Modulus	psi	400000	120,000 - 350,000
Hardness, Rockwell R		D785	26.0 - 112
IZOD Impact Strength Notched	ft-lb/in	D256	1.59 - 2.30 @-40° C
IZOD Impact Strength Un-notched	ft-lb/in	D256	0.693 - 2.30
THERMAL PROPERTIES	UNITS	ASTM	RESULTS
Coefficient of Linear Thermal Expansion	µin/in-°F	D256	6.11 - 94.4
Heat Deflection Temp at 66 psi	°F	D648	154 - 201
Heat Deflection Temp at 264 psi	°F		126 - 183
Melting Temperature	°F	D3418	176 - 239
ELECTRICAL PROPERTIES	UNITS	ASTM	RESULTS
Dielectric Constant		D150	3.30 - 3.80
Dissipation Factor @ 60 Hz		D150	0.0100 - 0.150
OPTICAL PROPERTIES	UNITS	ASTM	RESULTS
Refractive Index	%	D542	1.46 - 1.49
Haze, initial	%	D1003	8.5
Transmission, Visible	%		90

*NOTE: The property values presented above are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.*