

CorTuff™ High Abuse Film

Film Highlights

- Extremely abuse resistant
- Lowers packaging costs
- Lowers shipping costs
- Increases productivity
- Uses less packaging material
- Ensures product integrity
- Corrugated box replacement
- Tamper resistant
- Available in opaque or clear
- Standard or heavy grade

An abuse-resistant packaging alternative to corrugated boxes.

Cryovac® **CorTuff™** is the latest in a long line of packaging innovations from Cryovac. CorTuff™ is a highly rugged shrink film with unprecedented puncture resistance that can save you money. It is a packaging innovation so tough, we don't call it a breakthrough. It's designed as a durable, reliable and cost-effective alternative to traditional packaging.

CorTuff™ sets the standard for abuse resistance and can eliminate the need for corrugate. It is incredibly durable and is strong enough to withstand the abuses of shipping and handling. Due to its extreme durability, CorTuff™ also offers excellent tamper resistance. Since CorTuff™ is a shrink film, it's extremely versatile and can package a wide variety of sizes while still being strong enough to withstand distribution abuses.

CorTuff™ shrinks tightly around package contents, preventing shifting in transit, ensuring the integrity of the shipment.

This remarkable shrink film lowers shipping costs by reducing packaging weight. It can also reduce packaging costs by increasing productivity, reducing labor costs, and reducing the amount of packaging materials used and inventoried.

PROPERTIES

Formulation	ASTM Test Method		STD	HVY
Tensile Strength (psi)	D-882	LD*	12,415	10,823
		TD**	12,779	12,601
Elongation at Break (%)	D-882	LD	184	194
		TD	197	216
Modulus of Elasticity (psi@73 F.)	D-882	LD	24,150	24,530
		TD	24,960	25,820
Instrumented Impact, Peak Load (lbs.)	D-3763		64	93
Tear Propagation (gms)	D-1938	LD	72	87
		TD	67	87
Shrink Tension @200°F	D-2838	LD	243	191
		TD	301	330
		LD	304	261
		TD	333	386
		LD	326	287
		TD	345	388
		LD	327	286
		TD	345	385
		LD	325	293
		TD	343	408
Unrestrained Shrink (%) @200°F	D-2732	LD	17	2
		TD	24	21
		LD	33	24
		TD	42	36
		LD	57	49
		TD	60	55
		LD	68	62
		TD	67	65
Water Vapor Transmission Rate (gms/100 sq. in./24 hrs.)	F-1249		0.35	0.3
Oxygen Transmission Rate (cc/m ² /24 hrs.)	D-3985		2240	1760
Yield (sq inches per pound)			10,000	6,666

Note: These are typical values for Cryovac shrink films. They are not intended for use as limiting specifications.

* Longitudinal Direction ** Transverse Direction

This information represents our best judgment based on the work done, but the Company assumes no liability whatsoever in connection with use of information or findings contained herein.



Cryovac, Duncan, SC 29334