



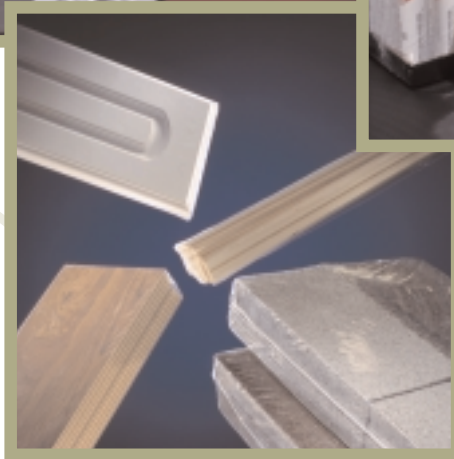
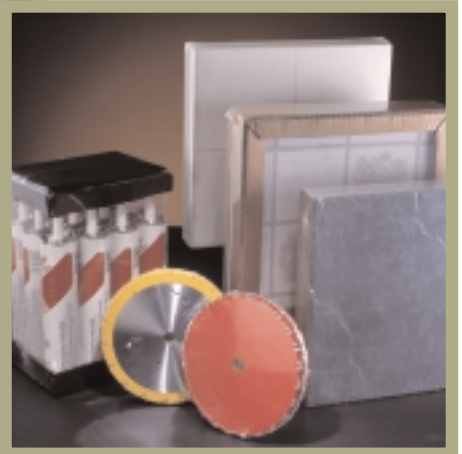
CorTuff

High-Abuse Shrink Film

Toughness

Meets

Versatility



Sealed Air Corporation

CorTuff™ High-Abuse Shrink Film

For the first time, shrink packaging technology has delivered a material with the toughness and versatility to go head-to-head with bulky, traditional packaging media like corrugate, heavy-gauge polyethylene, skin packaging, and clamshells. CorTuff™ High-Abuse Shrink Film gives you a cost-effective packaging alternative with unprecedented impact strength that can be used as a primary shipping media and still look great to retail shoppers. Because it's a shrink film you can automate your packaging process, increasing production rates and reducing packaging costs.

Abuse Resistance

CorTuff is the strongest shrink film available in the market today.

Outstanding impact strength ensures your product's protection throughout the most abusive distribution channels, resulting in a more secure package, fewer failures and returns for damage.

Packaging Versatility

CorTuff wraps a wide range of product shapes, weights, and sizes, from large consumer goods, to odd-shaped, and smaller "pick and pack" parcels; all wrapped on site, on demand.

With CorTuff, there's no need for multiple SKUs of different sized packaging materials, and that means fewer change-overs. And with potential package weight reduction, you may gain substantial savings in postage and shipping.



Packaging Versatility

Wrapping a wide range of products, CorTuff eliminates many different sized packaging materials.

Space Efficiency

Minimizing floor space needed for storage, one roll of CorTuff protects as many different sized products as more than 600 corrugated boxes.¹

Achieve tremendous savings to your bottom line from using less warehouse space.



Space Efficiency

One roll of CorTuff protects as many different sized products as more than 600 corrugated boxes.¹

Production Flexibility

CorTuff lends itself to full automation of your production line.

Requiring less labor, CorTuff increases production rates and throughputs, and reduces your packaging and labor costs.

CorTuff completely shrinks while in the heat tunnel.

Versus polyethylene, CorTuff increases your throughput speed by eliminating the long wait for packaging to cool.

CorTuff shrinks at temperatures approximately 40% lower than skin packaging and thick mil polyethylene.

CorTuff dramatically reduces your utility costs by using less energy to perform.



Production Flexibility

Lending itself to automation, CorTuff requires less labor for increased production rates and throughput.

CorTuff™ Properties

Grade	ASTM Test Method	Typical Values	
		LD*	TD**
Yield (sq. in. per pound)		10000	
Instrumented Impact Strength (lbs)	D 3763-95a	63	
Water Vapor Transmission Rate (gms/100sq. in./24hrs.; 100%RH, 100°F)	F 1249-90	0.3	
Oxygen Transmission Rate (cc/m ² /24hrs. @ 73°F, 1atm)	D 3985-95	1400	
Minimum Use Temperature		-60°F	
Maximum Storage Temperature		90°F	
Tear Propagation (gms)	D 1938	80	75
Elongation at Break (%)	D 882-95	180	190
Tensile Strength (psi)	D 882-95	12000	14000
Modulus of Elasticity (psi @ 73°F)	D 882-95	35000	37000
Free Shrink (%)	D 2732-83		
@200°F		10	17
@220°F		17	28
@240°F		42	52
@260°F		65	66
@280°F		70	70
Shrink Tension (psi)	D 2838-95		
@200°F		217	316
@220°F		283	360
@240°F		307	367
@260°F		307	365
@280°F		309	376

Note: These are typical values and are not intended for use as limiting specifications.
*Longitudinal Direction **Transverse Direction

This information represents our best judgement based on the work done, but the Company assumes no liability whatsoever in connection with the use of information or findings contained herein. CorTuff™ complies with the requirements of the Federal Food, Drug and Cosmetics Act, as amended, for the packaging of all foods, with the exception of high alcoholic, at temperatures of 65°C and below.

¹Stated calculation is based on comparing one, 24 inch roll of CorTuff™ High-Abuse Shrink Film, to 662 corrugated boxes with dimensions of 12" x 12" x 7".

Our Products Protect Your Products®

Opti® Shrink Packaging

- A complete turnkey, cost-effective solution
- Opti® brand shrink film
- Opti® brand Packaging Equipment



Cryovac®

Performance Shrink Films

- Widest selection of shrink film and shrink packaging equipment systems
- Most experienced team of packaging professionals in the industry
- Extensive distribution network second to none

Consultative Services

- Packaging concept development
- Film selection assistance
- Packaging line audits and value analysis



Shanklin®

Shrink Packaging Systems

- Feasibility studies of proposed equipment
- Custom-built shrink packaging systems
- Equipment installation, training and ongoing technical support



Sealed Air

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