

# Clysar ShrinkBox

Bemis Clysar ShrinkBox is the strongest polyolefin-based shrink film on the market. As so, it provides the highest puncture, tear and abrasion resistance of any heat-shrinkable shrink film available today. As a Clysar film, ShrinkBox™ also offers superior clarity, gloss and the ability to conform to irregular shapes. This revolutionary combination of properties makes ShrinkBox an excellent choice for both very demanding display and industrial packaging applications.

ShrinkBox is also available as an opaque film in its version called ShrinkBox Confidential, which offers the additional benefit of complete privacy for the contents of the package.

## Uses of ShrinkBox Film

Products traditionally packed in cardboard boxes or heavy polyethylene present excellent opportunities to use ShrinkBox. Goods wrapped in Bemis Clysar ShrinkBox will have enhanced appeal and will remain intact during handling, storage and exhibition.

ShrinkBox is functional on conventional shrink-wrapping equipment.

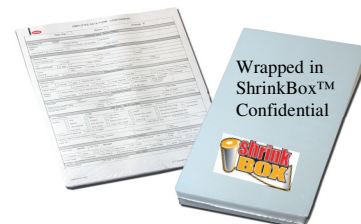
## Available Grades

- ShrinkBox 1525 for advanced product protection with maximum optical properties
- ShrinkBox 2035 for maximum physical properties with excellent optical characteristics

ShrinkBox 1525 is available in the ShrinkBox Confidential version as ShrinkBox 1525C.

**Clysar® ShrinkBox™  
Linear Length - Flat Film<sup>1</sup>**

Core I.D., in.	Roll O.D., in.	Grade	
		1525 1525C	2035 2035C
3	10 ½	3300	2200
3	14 ¼	6600	4400
6	12 ½	3300	2200
6	15	6600	4400



## Significant Features

- Strong and Durable Seals
- Excellent Seal Integrity
- Superior Burn-through Resistance
- High shrink force for superior bundling capability
- Superior Tear, Impact and Abrasion Resistance
- High Gloss, Clarity and Sparkle
- Good Clean-up
- Full Privacy (ShrinkBox Confidential).



## Typical Properties of Clysar ShrinkBox Film

Property	ASTM Test Method	Units	Grade		
			1525	1525C	2035
Haze	D1003	%	2.5	-	3.5
Gloss (at 20°)	D2457	-	120	85	120
Opacity (100 - %Light Transmittance)	D1003	-	-	90%	-
COF, Kinetic	D1894	-	0.15		0.20
Shrinkage, 102°C (216°F) –10 min	D1204	% (area)	60		60
Tensile Strength	D882	MPa	90		90
Stiffness Modulus	D882	MPa	290		290
Elongation	D882	%	180		190
Tear Strength (Elmendorf)	D1922	g	85		135
Instrumented Puncture	Mackin	kg	7.3		11.4

Note: These values are typical data for Clysar® ShrinkBox™ shrink film and are not intended for use as limiting specifications.

The technical data contained herein are guides to the use of Bemis Clysar films. The advice contained herein is based upon tests and information believed to be reliable, but users should not rely upon it absolutely for specific applications because performance properties will vary with processing conditions. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. The Bemis Clysar Company makes no guarantees of results and assumes no obligations or liability in connection with its advice. This publication is not to be taken as a license to operate under, or recommendation to infringe, any patents.

**CAUTION:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see Bemis Medical Caution Statement, MCS\_02.

### Storage and Use

Storage below 32°C (90°F) is recommended. Prolonged exposure to temperatures moderately above 32°C (90°F) or brief exposure to temperatures well above 32°C (90°F) may cause difficulty in unwinding film.

Bemis does not recommend heating or cooking foods in Clysar films. High temperature, high speed, heat sealing of polyolefin shrink films will release small amounts of "smoke", which should be removed by adequate ventilation in normal commercial practice.

### Disposal

Preferred options for disposal are: (1) recycling, SPI Code – Class 4; (2) incineration with energy recovery; and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled.

For more detailed information on the safe handling of Bemis Clysar films, a "Safety in Handling and Use" guide and OSHA Material Safety Data Sheets can be obtained from your Bemis Clysar representative.

**Do you want to see your product wrapped in ShrinkBox?  
Contact us at 1-888-4CLYSAR and we will design the ShrinkBox solution for you.**