

# ShrinkBox™ Film

## Description

Bemis Clysar® ShrinkBox™ is a strong, tough, clear, biaxially oriented, heat-shrinkable polyolefin film.

## Uses

Bemis Clysar ShrinkBox is recommended when packages need to provide both superior physical protection and premium product appearance. 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. In addition, the packaging cost per package can be reduced dramatically.

ShrinkBox is functional on conventional packaging machines, producing tough, durable wraps with strong seals, excellent shrinkage and optics (see more details in TECH TIP – Clysar ShrinkBox Film).

## Significant Features

- Strong and durable seals.
- Excellent seal integrity with virtually no pinholes.
- Excellent burn-through resistance.
- High shrink force for superior bundling capability.
- Superior tear, impact and abrasion resistance.
- High gloss, clarity and sparkle.
- Good clean up.

## Standard Put-Ups

- Available in two grades, either single-wound (SW) or center-folded (CF or F) film.
- Single-wound film is available in widths from 110 – 1720 mm in 10 mm increments.
- Center-folded film is available in widths from 130 – 760 mm in 10 mm increments.
- Standard CF stock sizes are available in 50mm width increments.
- Film is wound on 76 mm cores to the standard roll sizes as shown in Table 1.

Table 1

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

Core I.D., mm.	Roll O.D., mm.	Grade	
		1525	2035
76	267	1,000	670
76	369	2,010	1,340

<sup>1</sup> Center-folded film will have approximately half the linear length of flat film for the same grade and roll dimensions.

### Storage and Use

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.

**Table 2**  
**Typical Properties of Clysar® ShrinkBox™**

Property	ASTM Test Method	Units	Grade	
			1525	2035
Haze	D1003	%	2.5	3.5
Gloss (at 20°)	D2457	–	120	120
COF, Kinetic	D1894	–	0.15	0.2
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	N	0.834	1.324
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.

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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\_01.