

## Description

Clysar® EVO™ ShrinkBox® film—a tough, clear polyolefin shrink film—offers enhanced sustainability. EVO™ ShrinkBox® film is prequalified by **How2Recycle®** for the Store Drop-Off label and can be made with Clysar® ReClaim™ pre-consumer recycled resin, certified by SCS Global Services.

A revolutionary combination of properties makes EVO™ ShrinkBox® film an excellent choice to replace cardboard or cloudy polyethylene film. It offers superior puncture, tear and abrasion resistance. Extremely clear and glossy, it conforms well to irregular shapes and has a high shrink force ideal for bundling and containing products.

Clysar, LLC  
888-4-CLYSAR  
marketing@clysar.com

Highway 67 South  
Clinton, IA 52732

[www.clysar.com](http://www.clysar.com)

# Clysar®

# Clysar® EVO™ ShrinkBox® Films DATA SHEET

## Uses

Clysar® EVO™ ShrinkBox® film improves sustainability and brand appeal for products traditionally packaged in cardboard boxes or thick, cloudy polyethylene film.

This recyclable film is prequalified for Store Drop-Off by **How2Recycle®**, and can be produced with pre-consumer recycled content. The film can significantly reduce packaging weight and volume vs. heavier materials, making it ideal for e-commerce and industrial applications.

Exceptionally strong and abuse-resistant, EVO™ ShrinkBox® film keeps products intact during handling, storage and shipping, and easily contains rolled or bundled products. Exceptional clarity and gloss enhance shelf appeal for retail display.

Clysar® EVO™ ShrinkBox® film runs smoothly on conventional shrinkwrapping equipment.



Prequalified for the Store Drop-Off label by **How2Recycle®**



## Significant Features

### Sustainability

- Prequalified for the Store Drop-Off label by **How2Recycle®**.
- May be produced with Clysar® ReClaim™ pre-consumer recycled resin, certified by SCS Global Services.
- Reduces packaging volume/weight vs. cardboard and PE film.

### Sealing & Shrink Characteristics

- Provides strong, durable seals.
- Superior resistance to burn-through.
- Conforms to irregular shapes.
- Excellent cleanup.
- High shrink force for superior bundling and containment.

### Brand Appeal

- Exceptional product protection with superior tear, puncture, impact resistance.
- Sparkling clear and glossy.
- Provides clear product view.
- Sustainable content consumers seek.

### Available Grades

- Clysar® EVO™ ShrinkBox® 1525 film for advanced product protection with maximum optical properties.
- Clysar® EVO™ ShrinkBox® 2035 film for maximum physical properties with excellent optical characteristics.

## FDA/USDA Status

Clysar® films sold by Clysar, LLC, for food packaging use comply with U.S. Food and Drug Administration (FDA) requirements under the Federal Food, Drug and Cosmetic Act as amended. Clysar complies with FDA regulation 21 CFR 177.1520—Olefin polymers, allowing use for articles that contact food, except for articles used for packing or holding food during cooking.

## Use

Clysar, LLC, does not recommend using traditional heating or cooking methods for foods wrapped in Clysar® shrink films. For conditions specific to microwave cooking, please request documentation that is specific for your application through your Clysar representative.

## Disposal

Preferred options for disposal are: (1) Store drop-off recycling; and (2) incineration with energy recovery.

## Storage

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. For more detailed information on the safe handling of Clysar® films, a “Safety in Handling and Use” guide can be obtained from your Clysar representative.

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## Clysar® EVO™ ShrinkBox® - Linear Footage Flat Film (Table 1)

Core I.D., in.	Roll O.D., in.	Footage Put Up	1525	2035
3	10 1/2	Single	3,300	2,200
6	12 1/2	Single	3,300	2,200
6	15	Double	6,600	4,400

## EVO™ ShrinkBox® - Linear Footage Folded Film (Table 2)

Core I.D., in.	Roll O.D., in.	Footage Put Up	1525	2035
3	10 1/2	Single	1,650	1,100
6	12 1/2	Single	1,650	1,100
6	15	Double	3,300	2,200

## Typical Properties of Clysar® EVO™ ShrinkBox® (Table 2)

Property	ASTM Test Method	Unit	1525	2035
Haze	D1003	%	2.5	3.5
Gloss (at 20°)	D2457	GU	110	110
COF, Kinetic	D1894	gf	0.15	0.20
Shrinkage, 102°C (216°F) -- 10 min	D1204	% (area)	35	35
Tensile Modulus (avg)	D882	kpsi	35	35
Tensile Strength (avg)	D882	kpsi	12	12
Elongation (avg)	D882	%	200	200
Tear Strength (Elmendorf)	D1922	gf	65	75
Spencer Impact	D3420	lbf	12	12

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

## Recyclability & PCR Content

Clysar® EVO™ ShrinkBox® shrink film is approved for the Store Drop-Off label by **How2Recycle®**, and has obtained an official letter of prequalification. To use the recycling label on packaging, companies must be members of **How2Recycle®** and obtain approval for use. Contact your Clysar representative for more information.

Clysar® EVO™ Shrinkbox® film can be produced with Clysar® Reclaim™ pre-consumer recycled resin, certified by SCS Global Services. Information is available from your Clysar representative.



The technical data contained herein are guides to the use of 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. Clysar 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 Clysar Medical Caution Statement, MCS\_02.