

Description

Clysar® EVO™ shrink film is a new, recyclable, all-purpose, polyolefin shrink film that is prequalified for the Store Drop-Off label through the **How2Recycle®** program. This film is exceptionally clear, tough and tear-resistant. It is ideal for packaging for a wide range of retail products.



How2Recycle is the only label program that can supply the official **How2Recycle** label for packaging. In order to use the Store Drop-Off label on your EVO shrink package, you will need to contact **How2Recycle** directly and complete the **How2Recycle** label request form. If you have any questions regarding the information necessary to complete the label request, please contact your Clysar representative for assistance.

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Clysar®

Clysar® EVO™ Films

DATA SHEET

Uses

Clysar® EVO™ shrink film is a multi-purpose, recyclable alternative for most applications, adding a new level of sustainability to today's shrink packages. Approved for the **How2Recycle® Store Drop-Off** label, it is a drop-in solution for brands seeking a sustainable alternative that meets recyclable labeling initiatives.

EVO film is ideal for packaging almost any product—even those with voids or irregular shapes—and truly shines for retail applications. Exceptionally clear, tough and tear-resistant, EVO film provides strong seals, tight shrink and outstanding gloss and clarity. It runs easily and reliably on virtually all shrink equipment.

Significant Features

Equipment

- Runs easily and reliably on all packaging equipment including manual, semi-automatic, automatic and static seal machines.

Sealing

- Provides strong, durable seals with all sealing systems.
- Offers wide sealing range.
- Requires little or no cooling dwell time.
- Excellent seal integrity.

Shrinking

- Exceptional heat/burn-through resistance.
- Optimal available shrink.
- Ideal for products with irregular shapes and voids, bundling, multi-packs and shipping stabilization.

General

- Prequalified for fast-track recycling label approval.
- Excellent tear resistance.
- High gloss, clarity and shine.
- Great package cleanup and appearance.
- Ideal for printed and high-speed shrink packaging.



High-Speed,
Recyclable Film for
Ultimate Protection



NEW Recyclable
Shrink Film

Approved for the Store Drop-Off Label,
with official letter of prequalification
from the **How2Recycle®** Program

Visit clysar.com/shrink-films/evo-recyclable-films for information on our complete offering of recyclable Clysar® EVO® films preapproved for the Store Drop Off label by How2Recycle®.

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 or the OSHA Material Safety Data Sheets can be obtained from your Clysar representative.

Standard Put-Ups

- Clysar® EVO™ film is available in 45, 60 and 75 gauge.
- Flat film is available in custom widths from 3" to 100" in 1" increments.*
- Folded film is available in custom widths from 3" to 50" in 1" increments.*
- Folded film will have half the linear footage of flat film for same gauge and roll dimensions.
- Pre-perforated film in standard pattern is available for all gauges for both flat and folded film.
- Wound on 3" and 6" cores to the standard roll sizes shown in Table 1.

*Contact your Clysar representative for width-specific information.

Summary of Properties

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

| Core I.D., in. | Roll O.D., in. | Gauge | | |
|-------------------|-------------------|--------|--------|--------|
| | | 45 | 60 | 75 |
| 3 | 9½ | 11,660 | 8,750 | 7,000 |
| 3 | 13 | 23,320 | 17,500 | 14,000 |
| 6 | 11 | 11,660 | 8,750 | 7,000 |
| 6 | 14 | 23,320 | 17,500 | 14,000 |
| 6 | 18¾ | 46,640 | 35,000 | 28,000 |

Typical Properties of Clysar® EVO™ Film (Table 2)

| Property | ASTM Test Method | Unit | Gauge | | |
|-------------------------------------|------------------|------------------|-------|------|------|
| | | | 45 | 60 | 75 |
| Haze (avg) | D1003 | % | 2.0 | 2.5 | 2.5 |
| Gloss at 20° (min) | D2457 | GU | 135 | 135 | 135 |
| COF, Kinetic | D1894 | - | 0.20 | 0.20 | 0.20 |
| Shrinkage, 102°C (216°F)* -- 10 min | D1204 | % (area) | 50 | 50 | 50 |
| Shrink Force | D2838 | g/in @ 100°C | 85 | 130 | 145 |
| Stiffness Modulus (avg) | D882 | kpsi | 60 | 60 | 60 |
| Tensile Strength (avg) | D882 | kpsi | 15 | 15 | 15 |
| Elongation (avg) | D882 | % | 130 | 145 | 150 |
| Tear Strength (avg) (Elmendorf) | D1922 | g | 13 | 20 | 25 |
| Spencer Impact | D3420 | lbf | 7 | 10 | 13 |
| WVTR | F1249 | g/100 in²/24 hr | 2.1 | 1.5 | 1.4 |
| Oxygen Transmission | D3985 | cc/100 in²/24 hr | 900 | 600 | 500 |

Note: These values are typical data for Clysar® EVO 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 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.