

## Description

Clysar® EZG (EZ Gold) is a strong, clear, biaxially oriented, heat-shrinkable, polyolefin-based film. This film is well suited for static seal applications.

# Clysar® EZG Films

DATA SHEET

## Uses

Clysar® EZ Gold is used to shrink-wrap products that require a premium appearance. Clysar® EZG is an excellent choice for high-speed applications and static sealing. Excellent optics, clean shrink appearance and strong, durable seals are obtained on shadow boxes, irregular shapes and general purposes overwrapping under a wide range of operating conditions.

## Significant Features

### Sealing

- Provides very consistent, strong, durable impulse wire seals.
- Superior ease of use and machinability.
- Makes excellent electrostatic seals that will hold up through distribution.
- Has a wide heat-sealing range—with the capability to seal on multiple end seal systems.
- Does not give off harmful gasses or corrode sealing wires or equipment.
- Does not leave a carbon deposit on sealing wires, thus eliminating the need for an additional expensive Teflon® tape over the top of the sealing wire to get clean seals.
- Pinhole-free seals.

### Shrinking

- Delivers a clean shrink appearance with minimum dog ears, chatter marks and crow's feet.
- Has a wide shrink temperature range and a high available shrinkage.
- Good burn-through resistance.
- Shrinkage is balanced.

### General

- Excellent film durability, even at freezer temperature.
- Good sheet stiffness.
- Will not embrittle with age.
- High gloss, clarity and sparkle.
- Outstanding performance on high-speed automatic shrink equipment.
- Uniform package appearance due to more consistent air evacuation.

### Standard Put-Ups

- Clysar® EZG is available in three gauges: 45, 60 and 75 as only flat film.
- Flat film is available as Clysar® EZG in widths from 5" to 68" in 1/4" increments.
- Print treated film is available as Clysar® EZGT. This treatment is available only on 75 gauge flat film.
- Surface treated film for improved hot slip is offered as Clysar® EZGS.
- Film is wound on 3" and 6" cores to the standard roll sizes shown in Table 1.
- Perforation is optional for all EZG gauges: 45, 60 and 75.



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# Clysar®

## 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 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 7; (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.

## 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.

## Summary of Properties

**Clysar® EZG - Linear Footage Flat Film** (Table 1)

Core I.D., in.	Roll O.D., in.	Gauge		
		45	60	75
3	9 1/2	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	18 3/4	-	35,000	28,000

**Typical Properties of Clysar® EZG** (Table 2)

Property	ASTM Test Method	Unit	Gauge		
			45	60	75
Haze (avg)	D1003	%	2.0	2.1	2.2
Gloss at 20° (min)	D2457	GU	140	140	140
COF, Kinetic	D1894	-	0.2	0.2	0.2
Shrinkage, 110°C	D1204	% (area)	55	55	55
Shrinkage, 130°C	D1204	% (area)	84	84	84
Shrink Force, 110°C (230°F) (avg)	D2838	g/in	70	80	100
Stiffness Modulus (avg)	D882	kpsi	87	87	87
Tensile Strength (avg)	D882	kpsi	13	13	13
Elongation (avg)	D882	%	110	110	110
Tear Strength (avg)	D1922	g/ply	6	7.2	9
Spencer Impact	D3420	lbf	1.7	2.2	2.9
WVTR	F1249	g/100 in <sup>2</sup> /24 h	1.7	1.6	1.4
Oxygen Transmission	D3985	cc/100 in <sup>2</sup> /24 h	780	640	512

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