

Clysar EZ GOLD

Description

Clysar® EZ Gold is a strong, clear, biaxially oriented, heat-shrinkable polyolefin-based film.

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 easy 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 gases 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 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 temperatures.
- 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 four gauges: 50, 60, 75 and 100 as either flat or folded film.
- Flat film is available as Clysar EZG in widths from 5-68 inches in ¼ inch increments
- Folded film is available as Clysar EZGF in widths from 5-35 inches in ½ inch increments.
- Folded film has half the linear footage of flat film in the same gauge and roll dimensions.
- Print treated film is available as Clysar EZGT. This treatment is available only on 60 and 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.

Table 1
Clysar® EZ Gold
Linear Footage, Flat Film

Core I.D., in.	Roll O.D., in.	Gauge			
		50	60	75	100
3	9 ½	10,500	8,750	7,000	5,250
3	13	21,000	17,500	14,000	10,500
6	11	10,500	8,750	7,000	5,250
6	14	21,000	17,500	14,000	10,500
6	18 ¾	-	35,000	28,000	21,000

FDA/USDA Status

Clysar films sold 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 in contact with all types of foods. This FDA compliance and a continuing guarantee from Bemis Clysar will meet USDA requirements for packaging meat and poultry products.

Use

Bemis Clysar does not recommend heating or cooking foods in Clysar Shrink Film. High temperature and high speed sealing of Clysar 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 and a Material Safety Information Sheet can be obtained from your Clysar representative.

Table 2
Typical Properties of Clysar® EZ Gold

Property	ASTM Test Method	Units	Gauge			
			50	60	75	100
Haze (avg)	D1003	%	2.0	2.1	2.2	2.4
Gloss at 20° (min)	D2457	HU (photocell)	140	140	140	140
COF, Kinetic	D1894	–	0.2	0.2	0.2	0.2
Shrinkage, 110°C	D1204	% (area)	55	55	55	55
Shrinkage, 130°C	D1204	% (area)	84	84	84	84
Shrink Force, 110°C (230°F) (avg)	D2838	g/in	70	80	100	140
Stiffness Modulus (avg)	D882	kpsi	87	87	87	87
Tensile Strength (avg)	D882	kpsi	13	13	13	13
Elongation (avg)	D882	%	110	110	110	110
Tear Strength (avg.)	D1922	g/ply	6	7.2	9	12
Spencer Impact	D3420	kpsi	20	20	20	20
WVTR	F1249	g/100 in ² /24 h	1.7	1.6	1.4	1.2
Oxygen Transmission	D3985	cc/100 in ² /24 h	780	640	512	400

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

Bemis Worldwide

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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. Bemis 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 Bemis Medical Caution Statement, MCS_02.

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