

## Description

Clysar® HPG Confidential film is a tough, opaque polyolefin shrink film with a high degree of puncture, tear and abrasion resistance. As a Clysar® film, HPG Confidential film conforms to irregular shapes and seals reliably on a wide range of shrink equipment. This revolutionary combination of properties makes HPG Confidential film an excellent choice for mailing, retail, industrial, publishing, print bundling and e-commerce packaging applications requiring security, privacy or masking.

# Clysar® HPG Confidential DATA SHEET

## Uses

Strong and puncture-resistant, Clysar® HPG Confidential is a security shrink film ideal for protecting, masking or concealing sensitive contents. Applications include high-value products such as jewelry or electronics; sensitive printed or personalized materials; official documents and forms; catalogs and magazines; digital media; software; material bundling; and e-commerce fulfillment. It is an excellent alternative to corrugate boxes and heavy polyethylene overwraps.

## Significant Features

### Sealing

- Provides strong seals with most sealing systems, including wires, knives and electrostatic overlap
- Wide sealing temperature range
- Requires little or no cooling dwell
- Excellent seal strength, appearance and integrity

### Shrinking

- Excellent cleanup for tight, attractive packages
- High shrink force conforms to irregular shapes, offers excellent bundling capability
- Excellent resistance to burn-through
- Easy to run on most types of equipment

### General

- Attractive light gray color
- Ultra-strong, puncture-, abrasion- and tear-resistant
- Delivers significant material reduction vs. corrugate
- May be printed or used with labels

### Shipping

- HPG Confidential film can be packaged in corrugate-free packaging (singles, efficiency or cradle pack) to support sustainability through the supply chain.

### Standard Put-Ups

- 100 Gauge (80% Opacity for Concealment)
- 150 Gauge (90% Opacity for Privacy)
- Flat film is available as Clysar® HPGC in custom widths ranging from 1 3/4" to 98" in 1/4" increments.
- Folded film is available as Clysar® HPGC-F in 1/2" increments. Minimum width of folded film is 5". Maximum standard width of folded film is 42" for all gauges. Custom widths greater than 42" may be available.



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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 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.

## 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® HPG Confidential - Linear Footage Flat Film

Core I.D., in.	Roll O.D., in.	Gauge	
		100	150
3	9 1/2	5250	3500
3	13	10500	7000
6	11	5250	3500
6	14	10500	7000

### Typical Properties of Clysar® HPG Confidential

Property	ASTM Test Method	Unit	Gauge	
			100	150
Haze	D1003	%	NA	NA
Gloss (at 20°)	D2457	GU	77.5	74.3
Opacity (100 - % Light)	D1003	%	82.7	94.2
Transmittance	D1003-13	%	17.3	5.8
COF, Kinetic	D1894	-	0.16	0.20
Shrink Force	D2838	g/in	109	134.6
Stiffness Modulus (avg)	D882	Kpsi	65.6	60
Tensile Strength (avg)	D882	Kpsi	15.5	12.7
Elongation (avg)	D882	%	127	135
Tear Strength (Elmendorf)	D1922	g	41.4	40
Spencer Impact	D3985	lbf	4.5	5.6

Note: These values are typical data for HPG Confidential 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.