

## SPECTROCERTIFIED® THIN-FILM SAMPLE SUPPORT WINDOWS IN CONTINUOUS ROLLS AND PRECUT CIRCLES

Thin-Film Sample Support Windows are available in Continuous Rolls and Pre-Cut Circles interleaved with lint-free tissue carriers, in addition to SpectroMembrane®. Fabrication and storage of all thin-films is performed under environmentally controlled conditions and immediately individually shrink-wrapped in clear plastic to preserve the original integrity. These extra precautionary measures are necessary to avoid the potential possibility of inadvertently introducing trace levels of contaminants that may affect x-ray data.



### SPECIFICATIONS AND ORDERING INFORMATION

#### CONTINUOUS ROLLS:

(3" wide x 300' long; 7.6cm x 91.4 m)

CAT. NO.	THIN-FILM	GAUGE
090	Ultra-Polyester™	1.5 µ; 0.00006"; 0.06mil; 0.00152mm
095	Etnom®	1.5 µ; 0.00006"; 0.06mil; 0.00152mm
100	Mylar® Hostaphan®	2.5 µ; 0.00010"; 0.10 mil; 0.00254mm
150	Mylar® Hostaphan®	3.6 µ; 0.00014"; 0.14 mil; 0.00356mm
250	Mylar® Hostaphan®	6.0 µ; 0.00024"; 0.24 mil; 0.00610mm
416	Prolene®	4.0 µ; 0.00016"; 0.16 mil; 0.00406mm
425	Polypropylene	6.0 µ; 0.00024"; 0.24 mil; 0.00610mm
440	Polyimide (Kapton®)	7.5 µ; 0.00030"; 0.30 mil; 0.00762mm
442*	Polyimide (Kapton®)	7.5 µ; 0.00030"; 0.30 mil; 0.00762mm
475	Polypropylene	12.0 µ; 0.00050"; 0.50 mil; 0.0127mm

\*Cat. No. 442 is supplied in 50' (15.2m) lengths

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#### PRECUT CIRCLES: (500 pieces/box)

(2.5" Diameter; 63.5mm)

CAT. NO.	THIN-FILM	GAUGE
106	Mylar® Hostaphan®	2.5 µ; 0.00010"; 0.10 mil; 0.00254mm
156	Mylar® Hostaphan®	3.6 µ; 0.00014"; 0.14 mil; 0.00356mm
256	Mylar® Hostaphan®	6.0 µ; 0.00024"; 0.24 mil; 0.00610mm
426	Prolene®	4.0 µ; 0.00016"; 0.16 mil; 0.00406mm
436	Polypropylene	6.0 µ; 0.00024"; 0.24 mil; 0.00610mm
446	Polyimide (Kapton®)	7.5 µ; 0.00030"; 0.30 mil; 0.00762mm
476	Polypropylene	12.0 µ; 0.00050"; 0.50 mil; 0.0127mm

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#### Precut Circles: (1000 pieces/box)

(2.5" Diameter; 63.5mm)

CAT. NO.	THIN-FILM	GAUGE
107	Mylar® Hostaphan®	2.5 µ; 0.00010"; 0.10 mil; 0.00254mm

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- Briquetting Presses and Accessories
- Grinding/Briquetting Additives
- Fusion Machines and Accessories
- Petrochemical Oil Standards
- PE and PVC Polymer Compliance Standards

#### Thin-Film Sample Supports

- Technical Data
- How to Select Thin-Films
- Continuous Rolls/Precut Circles
- SpectroMembrane® Carrier Frames
- Microporous Pressure Equalizing Film
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- Microporous Film
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157	Mylar® Hostaphan®	3.6 μ; 0.00014"; 0.14 mil; 0.00356mm
257	Mylar® Hostaphan®	6.0 μ; 0.00024"; 0.24 mil; 0.00610mm
427	Prolene®	4.0 μ; 0.00016"; 0.16 mil; 0.00406mm
437	Polypropylene	6.0 μ; 0.00024"; 0.24 mil; 0.00610mm
447	Polyimide (Kapton®)	7.5 μ; 0.00030"; 0.30 mil; 0.00762mm
477	Polypropylene	12.0 μ; 0.00050"; 0.50 mil; 0.0127mm

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Note: The possibility of pinholes, pores and variations existing in any thin-film sample support substance regardless of form and packaging may present leakage of a sample with subsequent contamination and damage to the analytical instrumentation and its components. It is strongly recommended that each item used be subject to judicious testing, use and applications and evaluation prior to actual use. The responsibility of acceptance and safety resides totally with the user. Chemplex Industries, Inc. assumes no liability or guarantees that thin-film sample supports will perform in accordance with its suggested use.

IMPORTANT: Some window materials may not be suitable for analyzing sulfur in diesel fuel, gasoline and other petroleum products containing aromatic hydrocarbons. ASTM D-6445-99 (Reapproved 2004) e1: "Samples of high aromatic content may dissolve polyester and polycarbonate films. In these cases, other materials besides these films may be used for X-ray windows, provided that they do not contain any elemental impurities. An optional window material is polyimide film. While polyimide film absorbs sulfur x-rays more than other films, it may be a preferred window material as it is much more resistant to chemical attack by aromatics and exhibits higher mechanical strength." ASTM D 4294-08a: "Any film that resists attack by the sample, is free of sulfur, and is sufficiently X-ray transparent can be used. Film types can include polyester, polypropylene, polycarbonate, and polyimide. However, samples of high aromatic content can dissolve polypropylene, polycarbonate and polyester."

Refer to [Chemical Resistance Table](#) and % [Transmission Values](#) for comparing all thin-film windows.

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