

SPECTROMEMBRANE® THIN-FILM SAMPLE SUPPORT WINDOW CARRIER FRAMES



SpectroMembrane® Thin-Film Sample Support Carrier Frames consist of a thin-film sample support substance attached to a frame that serves as a carrier. In affixing a thin-film substance to an XRF Sample Cup, the thin-film material is not directly handled and a contamination possibility is completely eliminated. Nearing or at the completion of attachment, the thin-film automatically detaches from the carrier frame leaving a taut wrinkle-free sample support window.



NO WASTE
STATIC CLING
CONTAMINATION
EXPERIENCE NECESSARY

Step 1. Place SpectroMembrane over the assembled sample cup.



Step 2. Press Snap-On Ring or Sleeve over SpectroMembrane and tear away from carrier frame.

SpectroMembrane® is conveniently packaged in 100 units to match 100 XRF Sample Cup Sets per package. When ordering packages of XRF Sample Cups, simply order the same number of SpectroMembrane packages.

Specifications and Ordering Information

| CAT. NO. | THIN-FILM SUBSTANCE | GAUGE (Thickness) | CIRCLE DIAMETER | SUGGESTED SAMPLE CUP CAT. NO. USE |
|----------|---------------------|---|------------------|---|
| 3011 | Mylar® | 2.5 µ; 0.00010"; 0.10 mil; 0.00254 mm | 2.5" (63.5mm) | 1060, 1065, 1330, 1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3012 | | 2.5 µ; 0.00010"; 0.10 mil; 0.00254 mm | 3.0" (76.2mm) | 1070,1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3013 | | 3.6 µ; 0.00014"; 0.14 mil; 0.00356 mm | 2.5" (63.5mm) | 1060, 1065, 1330, 1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3014 | | 3.6 µ; 0.00014"; 0.14 mil; 0.00356 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3015 | | 6.0 µ; 0.00024"; 0.24 mil; 0.00610 mm | 2.5" (63.5mm) | 1060, 1065, 1330, 1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3016 | | 6.0 µ; 0.00024"; 0.24 mil; 0.00610 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3017 | | 4.0 µ; 0.00016"; 0.16 mil; 0.00406 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3017A | | 3.0 µ; 0.00012"; 0.12mil; 0.00305 mm | | |

What's New

- Exhibitions
- Clinics and Workshops
- Suggested Reading Material
- Reference Standard Sources
- Data Bases
- XRF Instrument Manufacturer's Showcase
- XRF Sample Cups and Accessories
- Grinding Machines and Accessories
- 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
- Accessories
- RoHS Compliant Thin Films
- Microporous Film
- RoHS European Council Directive 2002/95/EC

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|-------|---|---|------------------|---|
| 3018 | Prolene® | 4.0 µ; 0.00016"; 0.16 mil; 0.00406 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540,1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3018A | | 3.0 µ; 0.00012"; 0.12mil; 0.00305 mm | | |
| 3019 | Polypropylene | 6.0 µ; 0.00024"; 0.24 mil; 0.00610 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3020 | | 6.0 µ; 0.00024"; 0.24 mil; 0.00610 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540,1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3021 | Polyimide (Kapton®) (Resistant to Aliphatic and Aromatic Hydrocarbons) | 7.5 µ; 0.00030"; 0.30 mil; 0.00762 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3022 | | 7.5 µ; 0.00030"; 0.30 mil; 0.00762 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3023 | Polypropylene | 12.0 µ; 0.00050"; 0.50 mil; 0.0127 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3024 | | 12.0 µ; 0.00050"; 0.50 mil; 0.0127 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3025 | Etnom® (Resistant to Aliphatic and Aromatic Hydrocarbons) | 3.0 µ; 0.00012"; 0.12mil; 0.00305 mm | 2.5" (63.5mm) | 1060, 1065, 1330, 1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3026 | | 3.0 µ; 0.00012"; 0.12mil; 0.00305 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3029 | | 2.5µ; 0.00010; 0.10mil; 0.00254 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3030 | | 2.5 µ; 0.00010"; 0.10mil; 0.00254 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |
| 3031 | | 2.0 µ; 0.00008"; 0.08mil; 0.00203 mm | 2.5" (63.5mm) | 1060, 1065, 1330,1430, 1530, 1730, 1830, 1930, 2131, 2132 and 3100 Series |
| 3032 | | 2.0 µ; 0.00008"; 0.08mil; 0.00203 mm | 3.0" (76.2mm) | 1070, 1075, 1080, 1085, 1095, 1340, 1440, 1440L, 1540, 1740, 1840, 1850, 1940, 2135, 2140, 2143, 2145 |

Order Now

Reg. US Patent No: 6,009,766, Dr Monte J. Solazzi, and other patents in applications

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."

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