custom engineered precision extruded ArgoGuard® urethane films for durable high-gloss surface protection
Uncoated ArgoGuard paint protection films are cast on paper, polyethylene or polyester carriers that can be removed during processing or left on until final installation.

- A wide range of hardnesses.
- Tough, durable, abrasion and chip resistant.
- Resistant to bugs and road chemicals.
- Longest splice-free rolls available anywhere.

Add these benefits to SWM’s ability to custom engineer just the right film to meet the specific needs of your application and the result is a product line that contributes to a consistency of value unequalled in the urethane film industry.

CARRIERS FOR ANY APPLICATION
ArgoGuard paint- and metal-protection films can be cast on paper, polyethylene, or polyester carriers for ease of handling in the adhesive coating process, or as a component of the product to aid in final installation of the film.

NOT JUST FOR CARS & TRUCKS
ArgoGuard films are also ideal for protecting vulnerable surfaces on motorcycles, boats, recreational vehicles, propeller blades, appliances, gloss surfaces on computers, cell phones, tablets, monitors and other electronic devices, and any other surface needing protection from abrasion, scrapes, scouring or other types of erosive damage.

INDUSTRY LEADING TECHNICAL SUPPORT
Engineers at the SWM Innovation Center stand ready to interact with process engineers at the customer’s location to ensure that all ArgoGuard films perform properly in their production processes. They are also available to test the newest resins, engineer distinct formulations, and to troubleshoot both new and existing applications.

Unmatched optical clarity, UV resistance, layflat, cleanliness, paint-like gloss finish and durability

TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>49510</th>
<th>46510</th>
<th>49510-60DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>D-224</td>
<td>Shore 93A</td>
<td>Shore 60D</td>
<td>Shore 93A</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>D-412</td>
<td>5000 psi</td>
<td>7000 psi</td>
<td>5000 psi (34.26 MPa)</td>
</tr>
<tr>
<td>Elongation @ break</td>
<td>D-412</td>
<td>550%</td>
<td>450%</td>
<td>550%</td>
</tr>
<tr>
<td>UV resistance</td>
<td>A/10</td>
<td>No change at 3000 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gauge</td>
<td>6 - 12 mils (150 - 300 microns)</td>
<td>1.0 - 12 mils (25 - 300 microns)</td>
<td>Total both layers: 5 - 12 mils (125 - 300 microns)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>Up to 62 inches (1.57 meters)</td>
<td></td>
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</tbody>
</table>

Durable ArgoGuard films are also used to protect the leading edges of aircraft propellers and wind turbine blades from damaging abrasion.
SWM is the clear choice for custom-engineered, high-performance, polyurethane film and sheet for a wide variety of critical “can’t fail” applications. The company has extensive experience in flat-die, cast-on-carrier, and blown-film-extrusion technologies, as well as extrusion coating and multi-layer constructions.

SWM offers precision film & sheet products made from the full range of extrudable polyurethane resins, as well as copolyesters and other difficult-to-extrude specialty thermoplastic elastomers.

A technical force in the specialty films industry, SWM continues to set the standard for innovation, capability, and commitment to excellence in film extrusion and customer satisfaction.

This is evidenced by the SWM Innovation Center, the industry’s first-of-its-kind research & development facility devoted solely to advancing the state of polyurethane film and sheet. With a hard-walled white room environment, flat-die and blown-film lab lines, as well as production-level extrusion lines and a fully dedicated research staff, this resource allows SWM to continue to provide its customers with unequalled technical service for decades to come.

At every step of the design and production process, SWM adds value.

SWM is the Clear Choice!