Eger Products is a global leader and manufacturer offering thousands of standard-sized bus boots, switchgear insulation, bus bar insulation, and bus bar boots including a full line of Wildlife and Animal Outage Protectors. We also offer a complete line of the highest quality Porcelain Insulators, Porcelain Transformers, Switchgear Bushings and Polyester Standoff Insulators.

PolyPro FWM is a Flame Retardant Polypropylene extruded for electrical insulation applications in electrical and electronic power systems equipment. PolyPro FR™ offers the following characteristics:

- UL 94 V-0 rated in full thickness range of 0.010” - 0.125”
- Extremely low water absorption
- Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure, and Immersion in accordance with UL 749C
- Excellent fabrication and formability characteristics
- Available in Black or White as a roll, sheet or fabricated part
- Offers temperature resistance to 110°C per UL testing
- Provides a lower cost alternative for designs incorporating the use of materials such as Formex, Nomex® 410, Valox, Mylar Polyester Film, Vulcanized Fibre, Duroid, and Quin-T products.

PolyPro FWM can be custom fabricated for a wide range of application designs. It’s ability to be scored and formed allows it to be made into insulating boxes for various applications in electrical and electronic equipment.

Applications For PolyPro FR™
- Phase-to-Phase Barriers
- Fuse Board Insulation
- Air Duct Baffles
- Fuse Clip Insulation
- Ground Insulation
- Chassis/Enclosure Liner
- Insulating Spacers
- Formed Channels
- Capacitor Insulation
- Insulating Shields
- Switch Insulation
- Formed Angles
- Terminal Insulation
- PC Board Insulators
### Markets For PolyPro FR™
- Uninterruptible Power Supplies
- Power Distribution Units
- Meter Cabinet Switchgear
- Motor Control Centers
- AC-DC Power Supplies
- Battery Chargers
- Static Transfer Switches
- Power Filters & Conditioners
- Switching & Fusing Equipment
- Rectifiers & Inverters

### Flexible Material Comparative Table

<table>
<thead>
<tr>
<th></th>
<th>PolyPro FR™</th>
<th>Formex</th>
<th>Vulcanized Fibre</th>
<th>Duroid D-100FR</th>
<th>Mylar</th>
<th>Nomex</th>
<th>Valox</th>
<th>Polycarb (FR700)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability</strong></td>
<td>UL 94 V-0</td>
<td>UL 94 V-0</td>
<td>UL 94 HB</td>
<td>UL 94 V-0</td>
<td>UL 94 HB</td>
<td>UL 94 V-0</td>
<td>UL 94 V-0</td>
<td>UL 94 V-0</td>
</tr>
<tr>
<td><strong>Dielectric Strength</strong></td>
<td>1,000 VPM</td>
<td>1,000 VPM</td>
<td>215 VPM</td>
<td>200 VPM</td>
<td>1,400 VPM</td>
<td>700 VPM</td>
<td>400 VPM</td>
<td>1,500 VPM</td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>4,300 psi</td>
<td>4,800 psi</td>
<td>14,000 psi</td>
<td>12,000 psi</td>
<td>25,600 psi</td>
<td>n/a</td>
<td>7,500 psi</td>
<td>11,000 psi</td>
</tr>
<tr>
<td><strong>Temperature Index</strong></td>
<td>110°C</td>
<td>115°C</td>
<td>110°C</td>
<td>90°C</td>
<td>130°C</td>
<td>220°C</td>
<td>140°C</td>
<td>140°C</td>
</tr>
<tr>
<td><strong>Water Absorption</strong></td>
<td>0.01%</td>
<td>0.01%</td>
<td>66%</td>
<td>40%</td>
<td>0.01%</td>
<td>20%</td>
<td>0.04%</td>
<td>0.28%</td>
</tr>
<tr>
<td><strong>Relative Cost</strong></td>
<td>$2</td>
<td>$2.30</td>
<td>$2.20</td>
<td>$2.10</td>
<td>$2</td>
<td>$15</td>
<td>$3.50</td>
<td>$6</td>
</tr>
</tbody>
</table>

TGC’s PolyPro FR™ is a UL equivalent to Formex, while offering a significant cost advantage. As shown in the table above, PolyPro FR™ offers many other advantages over other common flexible materials in the industry.

![Battery Sleeve/Support](image1.png)
![Air Duct Baffle](image2.png)
![Panelboard Backplane Insulator](image3.png)

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**EGER PRODUCTS**

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