

# POLYPRO FR™

Flame Retardant Polypropylene electrical insulation



Serving the needs of the Global Electric Power Industry



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 746C
- 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™**

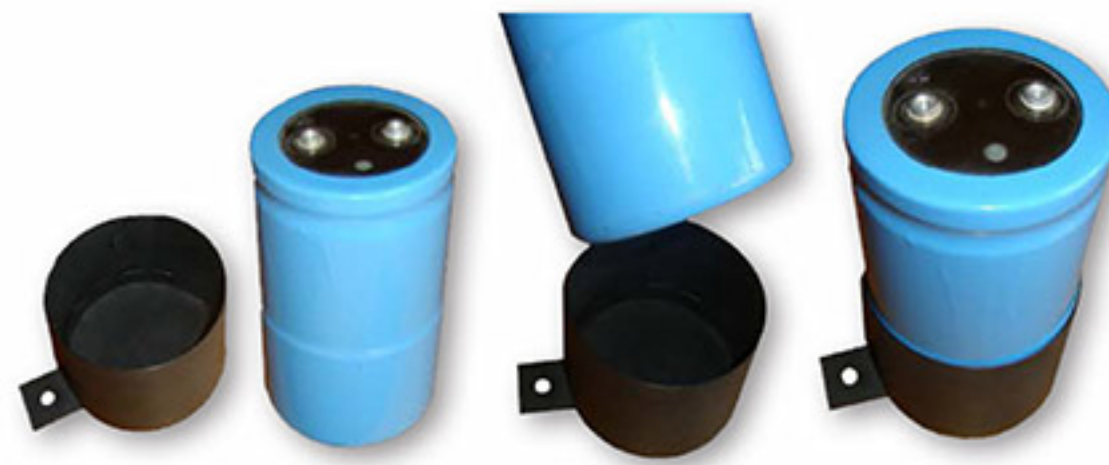
- Phase-to-Phase Barriers
- Fuse Board Insulation
- Air Duct Baffles
- Fuse Clip Insulation
- Ground Insulation
- Chassis/Enclosure Liner
- Insulating Spacers
- Formed Channels
- Capacitor Insulation
- Insulating Shields
- Switch Insulation
- Formed Angles
- Terminal Insulation
- PC Board Insulators

## 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

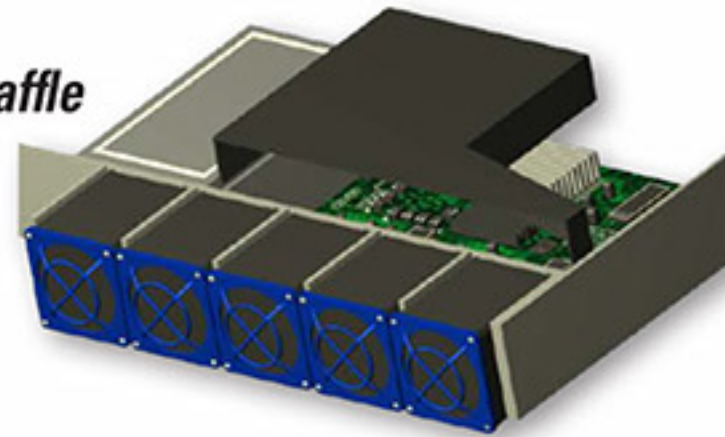


PCB Liner



Battery Sleeve/Support

Air Duct Baffle



Panelboard Backplane Insulator

## Flexible Material Comparative Table

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

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.

■ Best   
 ■ Better   
 ■ Good

