



THE GUND COMPANY

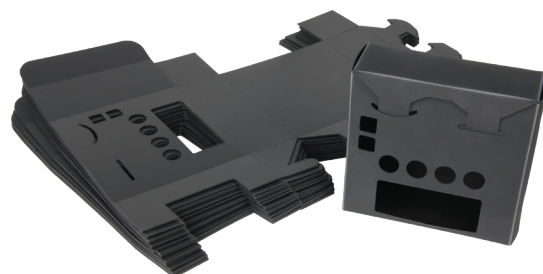
MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

PolyPro FR[®] Flame Retardant Polypropylene



Developed by The Gund Company, PolyPro FR[®] is a flame retardant Polypropylene extruded for electrical insulation applications in electrical and electronic power systems equipment. PolyPro FR[®] offers the following characteristics:

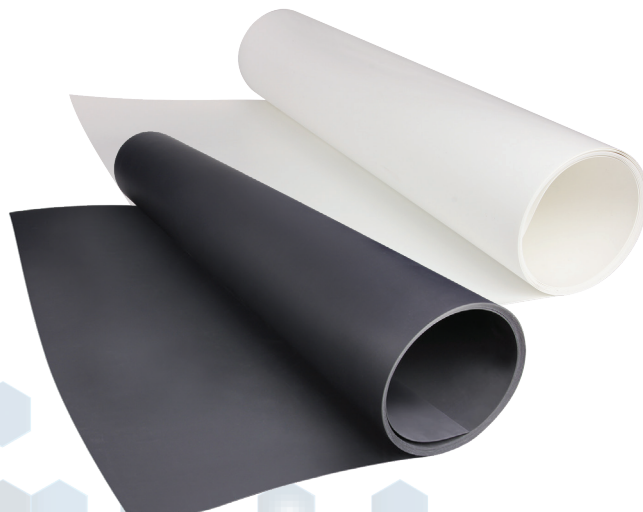
- PolyPro FR[®] from The Gund Company is a UL certified product: E228440
- UL 94 V-0 rated in full thickness range of 0.010" - 0.125"
- Extremely low water absorption
- Excellent fabrication and formability characteristics
- Available in Black or White as a roll, sheet or fabricated part
- Offers temperature 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, Voltoid, and Quin-T products
- Excellent Dielectric Breakdown strength
- Additional thickness and color available upon request
- Made and stocked in the U.S.



PolyPro FR[®] can be customer 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.

Common Applications for PolyPro FR[®]

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





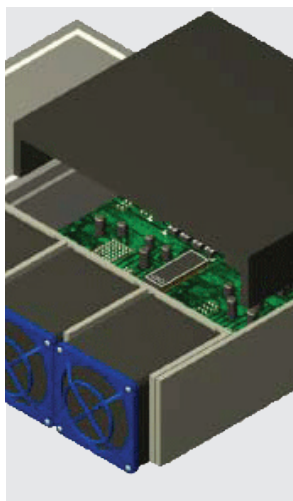
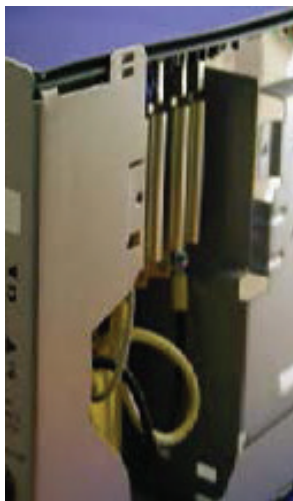
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PolyPro FR[®]

Additional Applications for PolyPro FR[®]

- Uninterrupted 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



Comparative Data of Flexible Materials

	PolyPro FR [®]	Formex [®]	Vulcanized Fiber	Voltoid [®]	Mylar [®]	Metastar [®]	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	UL 94 V-0
Dielectric Strength	1,000 VPM	1,000 VPM	215 VPM	200 VPM	1,400 VPM	410 VPM	700 VPM	400 VPM	1,500 VPM
Tensile Strength	4,300 psi	4,400 psi	14,000 psi	12,000 psi	25,600 psi	N/A	N/A	7,500 psi	11,000 psi
Temperature Index	110° C	115° C	110° C	90° C	130° C	210° C	220° C	140° C	140° C
Water Absorption	0.01%	0.01%	66%	40%	0.01%	20%	20%	0.04%	0.28%
Relative Cost	\$2.00	\$2.30	\$2.20	\$2.10	\$2.00	\$12.00	\$15.00	\$3.50	\$6.00

PolyPro FR[®] from The Gund Company is a UL equivalent to Formex[®]. PolyPro FR[®] offers a significant cost advantage as well as numerous other advantages over common flexible materials in the industry.

All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.