



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## PolyPro FR<sup>®</sup> Flame Retardant PolyPropylene

PolyPro FR<sup>®</sup> is a flame retardant polypropylene with a UL 94 V-0 flame class rating and features that make it an economical choice for electrical insulation applications. The material is available in a range of standard thicknesses from 0.010" to 0.125". PolyPro FR<sup>®</sup> can be fabricated into many designs using cost-effective fabrication methods such as die-cutting and knife-cutting. It also exhibits excellent formability characteristics - allowing quick formation into three-dimensional shapes. PolyPro FR<sup>®</sup> provides a lower-cost alternative for designs using these materials: Formex<sup>®</sup>, Nomex<sup>®</sup> 410, and Valox<sup>®</sup>. It is UL, RoHs, and REACH certified to ensure reliability, safety, and consistency.

UL File Number: E228440.

PROPERTIES	ASTM		TYPICAL VALUES		
	Test Method	Units	PolyPro FR <sup>®</sup> 10	PolyPro FR <sup>®</sup> 17	
<b>PHYSICAL</b>	Density	ASTM D792	lbs/in <sup>3</sup>	0.037	0.037
	Density	ASTM D792	gm/cm <sup>3</sup>	1.035	1.035
	Oxygen Index	ASTM D2863	%	28	28
	Water Absorption	ASTM D570	%	0.01	0.01
<b>MECHANICAL</b>	Tensile Strength: Yield	ASTM D882	PSI	5,194	4,648
	Tensile Elongation: Yield	ASTM D882	%	>100	>100
	Flexural Modulus	ASTM D790	KSI	311	303
	Flexural Strength	ASTM D790	PSI	8,052	7,905
	IZOD Impact Strength	ASTM D256	ft-lbs/in	0.13	0.22
<b>THERMAL</b>	Flammability	UL 94		VTM-0	V-0
	Heat Deflection Temp. (66 PSI, 0.0125")	ASTM D648	°F	235	235
	Heat Deflection Temp. (66 PSI, 0.0125")	ASTM D648	°C	113	113
	Dissipation Factor	ASTM D150		0.0009	0.0009
<b>ELECTRICAL</b>	Dielectric Strength	ASTM D149	V/mil	2,021	1,481
	Volume Resistivity	ASTM D257	ohm-cm	10 <sup>16</sup>	10 <sup>16</sup>
	Dielectric Constant	ASTM D150		2.3	2.3
	Dielectric Breakdown	ASTM D149	V	19,900	24,800
	Comparative Tracking Index	ASTM D3638		600+	600+

### LAMINATE SHEET AVAILABILITY

**SHEET SIZE**

• 24" x 24" or 48" x 96"

**ROLL WIDTH**

• 24" or 48"

**THICKNESS**

• 0.010" to 0.125"

### LAMINATE SHEET AVAILABILITY (SI)

**SHEET SIZE**

• 61 cm x 61 cm or  
122 cm x 244 cm

**ROLL WIDTH**

• 61 cm or 122 cm

**THICKNESS**

• 0.25 mm to 3.18 mm

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.



The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, 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, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.