



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

POLYPRO FR Flame Retardant Polypropylene

PolyPro FR®

Item:	PolyPro FR - Flame Retardant Polypropylene		
Description:	PolyPro FR® is a flame retardant polypropylene that carries a UL 94 V-0 flame class rating with 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® can be fabricated into a wide range of designs using cost-effective fabrication methods such as die cutting or knife cutting. It also exhibits excellent formability characteristics allowing it to be quickly formed into three-dimensional shapes. PolyPro FR® provides a lower-cost alternative for designs incorporating the use of materials such as Formex®, Nomex® 410, and Valox®. PolyPro FR from The Gund Company is UL, RoHs, and REACH certified to ensure reliability, safety, and consistency. UL File Number: E228440		
Availability:	Units:	English Units (in)	SI Units (mm/cm)
	Sheet Size:	24 x 24 or 48 x 96	61cm x 61cm or 122cm x 244cm
	Roll Width:	24 or 48	61cm or 122cm
	Thickness:	0.010 to 0.125	0.25mm to 3.18mm
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.	

*Standard colors of PolyPro FR®II are black and white. Custom colors, sheet, and roll sizes are available upon request.

Key Characteristics	Test Method	Units - English	Typical Values	PolyPro FR 10	PolyPro FR 17
Density	ASTM D-792	lbs/in3 (gm/cm3)	0.037 (1.035)	0.037 (1.035)	0.037 (1.035)
Oxygen Index	ASTM D-2863	%	28	28	28
Water Absorption	ASTM D-570	%	0.01	0.01	0.01
Flammability	UL 94	--	VTM-0 / V-0	VTM-0	V0
Heat Deflection Temp (66 psi, 0.0125")	ASTM D-648	oF (oC)	185 (85)	235 (113)	235 (113)
Tensile Strength, Yield ¹	ASTM D-882	psi (MPa)	4,400 (30.3)	5,194	4648
Tensile Elongation, Yield ¹	ASTM D-882	%	>100	>100	>100
Flexural Modulus ¹	ASTM D-790	ksi (MPa)	210 (1,448)	311	303
Flexural Strength ¹	ASTM D-790	psi (MPa)	5,900 (40.7)	8,052	7,905
IZOD Impact Strength ¹	ASTM D-256	ft-lbs/in (J/m)	1.2 (64)	0.13	0.22
Dielectric Strength ²	ASTM D-149	Volts/mil	2,200	19,900	24,800
Volume Resistivity	ASTM D-257	ohm-cm	1.0 x 10 ¹⁶	1.0 x 10 ¹⁶	1.0 x 10 ¹⁶
Dielectric Constant	ASTM D-150	--	2.30	2.3	2.3
Dielectric Breakdown ²	ASTM D-149	Volts	22,000	1.0 x 10 ¹⁶	1.0 x 10 ¹⁶
Dissipation Factor	ASTM D-150	--	0.0009	0.0009	0.0009
Comparative Tracking Index	ASTM D-3638	--	600+	600+	600+

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.