



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	PolyPro FR® II, Flame Retardant Polypropylene		
Description:	PolyPro FR® II 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® II 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 scored, shipped flat, and quickly folded into many three dimensional shapes. PolyPro FR® II provides a lower cost alternative for designs incorporating the use of materials such as Formex®, Nomex® 410, and Valox®. PolyPro FR II 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
	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 (SI)	Typical Values
Density	ASTM D-792	lbs/in ³ (gm/cm ³)	0.037 (1.035)
Oxygen Index	ASTM D-2863	%	28
Water Absorption	ASTM D-570	%	0.01
Flammability	UL 94	--	VTM-0 / V-0
Heat Deflection Temperature (66 psi, 0.125")	ASTM D-648	°F (°C)	185 (85)
Tensile Strength, Yield ¹	ASTM D-882	psi (MPa)	4,400 (30.3)
Tensile Elongation, Yield ¹	ASTM D-882	%	>100
Flexural Modulus ¹	ASTM D-790	ksi (MPa)	210 (1,448)
Flexural Strength ¹	ASTM D-790	psi (MPa)	5,900 (40.7)
IZOD Impact Strength ¹	ASTM D-256	ft-lbs/in (J/m)	1.2 (64)
Dielectric Strength ²	ASTM D-149	Volts/mil	2,200
Volume Resistivity	ASTM D-257	ohm-cm	1.0 x 10 ¹⁶
Dielectric Constant	ASTM D-150	--	2.30
Dielectric Breakdown ²	ASTM D-149	Volts	22,000
Dissipation Factor	ASTM D-150	--	0.0009
Comparative Tracking Index	ASTM D-3638	--	600+

¹ (23°C, 0.125") ² (0.01")