



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Arboron (High Arc Resistant Panel Board)		
Description:	Arboron is a cellulose based quality laminate with thermosetting resins, consolidated under high pressure and temperature into dense, uniform sheets with good electrical and mechanical properties. The melamine surface of Arboron provides excellent chemical and abrasion resistance. It has a very high strength to weight ratio (one-half of the weight of aluminum) and is relatively easy to fabricate.		
Availability:	Laminate Sheets:	English Units (in)	SI Units (mm/cm)
	Thickness:	.125, .188, .25, .313, .375, .5, .75, 1	3.18, 4.78, 6.35, 7.95, 9.53, 12.7, 19.1, 25.4 (mm)
	Sheet Sizes:	48 x 96, 60 x 120, 60 x 144	122 x 244, 152 x 305, 152 x 366 (cm)
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.	

Key Characteristics	Test Method	Units - English (SI)	Typical Values
Standard Color	--	--	Black
Density	--	lbs./in ³ (g/cc)	0.05 (1.38)
Water Absorption (.125")	ASTM D-570	%	0.9
Tensile Strength	ASTM D-638	PSI (MPa)	22,000 (152)
Compressive Strength (Flat-wise)	ASTM D-695	PSI (MPa)	45,000 (310)
Flexural Strength	ASTM D-790	PSI (MPa)	30,000 (207)
Bond Strength	ASTM D-732	psi (MPa)	2,000 (13.79)
Relative Temperature Index	--	°C	95
Flammability Rating (.240)	UL94	ft.-lbs./in.	V-0
IZOD Impact Strength (Edgewise)	ASTM D-256	ft-lb/in	1.0
Arc Resistance	ASTM D-495	Seconds	88
Dissipation Factor (.125")	ASTM D-150	--	.0827
Dielectric Strength (.125")	ASTM D-149	V/mil	439
Volume Resistivity (.125")	ASTM D-257	Ohms-cm	5.7 x 10 ¹¹
Comparative Track Index	UL	V	600
High Ampere Arc Ignition	UL	--	200+
Hot Wire Ignition	UL	Seconds	107