



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

G-Board™ HD-4

High Density Cellulose Pressboard

G-Board HD-4 is a high-density cellulose pressboard manufactured for **liquid-filled power, distribution, traction, and instrument transformer applications**. Produced in accordance with IEC 60641-3-1, Type B 3.1A requirements, HD-4 pressboard provides a balanced combination of dielectric performance, mechanical strength, oil absorbency, and dimensional stability for use in spacers, barriers, cylinders, and other insulating components. Test data reported herein were generated under laboratory conditions of 24°C and 50% relative humidity.

PRESSBOARD TYPE: IEC 60641-3-1, TYPE B 3.1A

TEST PARAMETERS & CLAUSES / Sub Clauses of IEC 60641-2:2008		Units	IEC 60641-3-1 Requirements	Typical Values
PHYSICAL	Thickness	mm	2.85 - 3.15 (Range)	3
	Density	gm/cm ³	1.10 - 1.25 (Range)	1.23
	Moisture Content	%	6.0 (Max.)	4.30
	Ash Content	%	0.7 (Max.)	0.35
	Oil Absorption	%	9 (Min.)	12.90
	pH of Aqueous Extract		6 - 9 (Range)	6.20
	Shrinkage: in Air (MD)	%	0.5 (Max.)	0.31
	Shrinkage: in Air (CMD)	%	0.7 (Max.)	0.38
	Shrinkage: in Air (THK)	%	6.0 (Max.)	3.08
	Polymerization Degree*		Premium Grade ≥1,000	1,458
MECHANICAL	Tensile Strength: MD	MPa	105 (Min.)	135.02
	Tensile Strength: CMD	MPa	80 (Min.)	103.85
	Elongation: MD	%	2.5 (Min.)	4.45
	Elongation: CMD	%	3.5 (Min.)	5.36
	Compressibility: Clause 10	%	7.5 (Max.)	5.85
	Compressibility: CREV	%	50 (Min.)	60.32
ELECTRICAL	Conductivity of Aqueous Extract	mS/m	6.0 (Max.)	3.05
	Electric Strength: in Air	kV/mm	12 (Min.)	16.56
	Electric Strength: in Oil	kV/mm	35 (Min.)	46.65

*Not an IEC-60641-3-1 requirement

LAMINATE SHEET AVAILABILITY

SHEET SIZE

- 43.3" x 86.6"
- 82.6" x 125.9"
- 86.6" x 173.2"

THICKNESS

- 0.031" - 0.315"

LAMINATE SHEET AVAILABILITY (SI)

SHEET SIZE

- 1,100 mm x 2,200 mm
- 2,100 mm x 3,200 mm
- 2,200 mm x 4,400 mm

THICKNESS

- 0.8 mm - 8.0 mm

The Gund Company 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.

G-BOARD™
CELLULOSE & ARAMID PRESSBOARD SOLUTIONS

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.