THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

G-Board™ HDL-2

High Density Laminated Cellulose Pressboard

G-Board HDL-2 is The Gund Company's laminated pressboard, manufactured by bonding pressboard sheets with a phenolic resin system. The base pressboard is produced in accordance with IEC 60641-3-1, Type B 3.1A requirements. G-Board HDL-2 is designed for use in liquid-filled power, distribution, traction, and instrument transformers. The material provides a balanced combination of dielectric performance, mechanical strength, oil absorbency, and dimensional stability, making it suitable for spacers, barriers, cylinders, and other critical insulating components. The test data presented herein were obtained under controlled laboratory conditions ranging from 22°C to 24°C and 50% to 52% relative humidity (RH).

PRESSBOARD TYPE: IEC 60763-3-1:2010 TYPE LB. 3.1 A

				TYPICAL VALUES							
	TEST PARAMETERS & CLAUSES / Sub Clauses of IEC 60763-2:2007+A1:2023	**Units**	**IEC 60763-2:2023 Standard**	**6 mm**	**8 mm**	**10 mm**	**12 mm**	**16 mm**	**20 mm**	**30 mm**	**Average (6 - 30 mm)**
PHYSICAL	Measured Thickness	mm	-	6.13	8.24	10.15	12.37	16.00	20.36	30.58	**14.27**
	Density	g/cm³	1.15 - 1.35	1.30	1.31	1.31	1.31	1.30	1.30	1.31	**1.31**
	Shrinkage: MD	%	≤ 0.4	0.25	0.25	0.23	0.25	0.23	0.24	0.24	**0.24**
	Shrinkage: CMD	%	≤ 0.6	0.31	0.36	0.49	0.33	0.34	0.34	0.34	**0.36**
	Shrinkage: Thickness	%	≤ 4.0	2.14	2.14	2.22	2.65	2.38	2.12	2.65	**2.33**
	Moisture Content	%	≤ 5.0	4.13	4.21	4.12	4.38	4.41	3.28	4.56	**4.13**
	Oil Absorption	%	≥ 5.0	6.43	6.74	6.13	8.32	8.18	7.06	7.38	**7.21**
	pH of Aqueous Extract		5.0 - 8.0	6.22	6.73	6.53	6.83	7.03	7.16	6.9	**6.77**
MECHANICAL	Flexural Strength: MD	MPa	≥ 110	121.40	123.60	121.19	122.36	123.50	121.43	123.38	**122.68**
	Flexural Strength: CMD	MPa	≥ 90	102.20	108.80	104.28	104.12	105.70	114.42	115.18	**107.81**
	Compressibility	%	≤ 3.0	2.13	2.14	2.12	2.25	2.68	2.02	2.88	**2.33**
	CREV		≥ 70	80.14	79.52	80.32	80.38	81.35	78.86	81.6	**80.25**
ELECTRICAL	Conductivity of Aqueous Extract	mS/m	≤ 10.0	6.36	6.56	6.22	6.93	6.9	6.68	7.03	**6.67**
	Electrical Breakdown: in Oil	kV/mm	≥ 8	9.23	9.21	9.63	9.27	9.83	9.16	9.11	**9.36**

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.