THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

G-Board™ LDHV

Low-Density Pressboard

G-Board™ LDHV is a low-density electrical-grade pressboard manufactured from 100% virgin electrical Kraft pulp. The fibers are extensively cleaned and specially refined to provide high purity and a strong combination of electrical and mechanical properties. The material is produced without sizing, clay, fillers, or other chemical additives, helping minimize impurities and support long-term performance in electrical insulation systems.

G-Board™ LDHV is available in thicknesses ranging from 1/32" to 1/4" (0.031" to 0.250"). It is designed for use in liquid-filled transformers, including barrier insulation, core insulation, spacers, and other components requiring reliable dielectric and mechanical strength. Its elongation characteristics also make it suitable for formed and shaped insulation components. In addition to transformer applications, G-Board™ LDHV can be used in motors and other electrical equipment where a combination of dielectric performance and physical strength is required.

PRESSBOARD TYPE: IEC 60641-3-1, TYPE B.4.1

		TYPICAL VALUES PER THICKNESS			
PROPERTIES		**1/32" (0.794 mm)**	**1/16" (1.587 mm)**	**3/32" (2.381 mm)**	**1/8" (3.175 mm)**
PHYSICAL	Density	1.00 g/cm³	1.00 g/cm³	1.00 g/cm³	1.00 g/cm³
	Density Range	0.95 - 1.10 g/cm³	0.95 - 1.10 g/cm³	0.95 - 1.10 g/cm³	0.95 - 1.10 g/cm³
	Moister Content	4 - 7%	4 - 7%	4 - 7%	4 - 7%
	Ash Content	<0.75%	<0.75%	<0.75%	<0.75%
	Oil Absorption	Min. 20%	Min. 20%	Min. 20%	Min. 20%
	pH Factor	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0
	Shrinkage: MD	0.4%	0.4%	0.4%	0.4%
	Shrinkage: CD	0.8%	0.8%	0.8%	0.8%
	Shrinkage: Thickness	5.0%	5.0%	5.0%	5.0%
	Compressibility	9.0%	9.0%	12.0%	12%
MECHANICAL	Tensile Strength: MD	12,000 PSI	12,000 PSI	9,500 PSI	9,500 PSI
	Tensile Strength: CD	6,000 PSI	6,000 PSI	7,000 PSI	7,000 PSI
	Tensile Strength: in Oil (MD)	12,000 PSI	12,000 PSI	6,100 PSI	6,100 PSI
	Tensile Strength: in Oil (CD)	6,800 PSI	6,800 PSI	6,800 PSI	6,800 PSI
	Elongation: MD	Min. 5.0%	Min. 5.0%	Min. 5.0%	Min. 5.0%
	Elongation: CD	Min. 8.5%	Min. 8.5%	Min. 8.5%	Min. 8.5%
	Elongation: in Oil (MD)	Min. 3.0%	Min. 3.0%	Min. 3.5%	Min. 3.5%
	Elongation: in Oil (CD)	Min. 3.0%	Min. 3.0%	Min. 4.0%	Min. 4.0%
ELECTRICAL	Conductivity	<20 µS/cm	<20 µS/cm	<20 µS/cm	<20 µS/cm
	Dielectric Constant: 25°C	2.2	2.2	2.7	2.7
	Dielectric Constant: 130°C	2.8	2.8	3.2	3.2
	Dissipation Factor: 25°C	0.50%	0.50%	0.63%	0.63%
	Dissipation Factor: 130°C	0.45%	0.45%	0.56%	0.56%
	Dielectric Breakdown: in Oil	25 kV/mm	25 kV/mm	40 kV/mm	40 kV/mm

HIGH PURITY

- extremely low dielectric constant and dissipation factor

DIMENSIONALLY STABLE

- fiber orientation is square thus reduces curl

SUPERIOR ELONGATION

- both directions, allows sharp folds and forming

SUPERIOR ELECTRICAL

- purity contributes to high dielectric in oil

READILY AVAILABLE

- 14-day typical time to ship

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.