Material:	Mica HD							
Description:	Mica HD is an ir	Mica HD is an inorganic bonded mica paper laminate with exceptional physical, electrical, mechanical, and						
	thermal characteristics. Mica HD is primarily used in areas of high voltage and high temperature electrical insulation. Mica HD is well suited for use in commutator applications. Due to the inorganic binder Mica HD will have a temperature rating of NEMA Class R or higher.							
Availability:	Laminate Sheets:		English Units [in]	SI Units [mm]				
		Thickness:	0.010 to 0.079	0.25 mm to 2.0 mm				
		Tolerance:	+/- 0.001 " or (0.03 mm) from nominal based on average of 10 measurements Individual piece can be +/- 0.002 " or (+/- 0.06 mm)					
		Sheet Size:	23.6 x 39.3	600 mm x 1000 mm				
		The Gund Company custom fabricates materials to the exact specifications and drawings of our customers.						

Key Characteristics:		Test Method	Units - English	Typical Values
Apparent Density		ASTM D-792	lb./in³ (g/cc)	.088 (2.45)
Water Absorption		ASTM D-570 D-24/23	%	.65
Tensile Strength		ASTM D-638 A	ksi (MPa)	28.3 (195)
Flexural Strength		ASTM D-790	ksi (MPa)	29.0 (200)
Compressive Strength	Room Temp.	ASTM D-695A	ksi (MPa)	57.5 (397)
Flammability Test	•	UL 94	Class	V-0
TI 10 1 1: 11	at 23°C	ACTNA 5 4464	W/m°C	.23
Thermal Conductivity	at 250°C	ASTM E-1461		.21
Heat Stability at 220°C		IEC371-3-1	/	No leakage of binder or mica displacement
Elastic Compression		IEC371-3-1	%	≤2
Plastic Compressive Defor	mation (creep)	IEC371-3-1	%	≤4
Dielectric Strength		IEC371-3-1	kV/mm	≥30
	at 23°C		J/kg°C	822
Specific Heat	at 250°C	ASTM E-1269		1081
Thermal Expansion	at 110°C	ACTA 4 F 220	10 ⁻⁶ /°C	10
*along plane	at 250°C	ASTM E-228		28
Heat Resistance	Continuous:	500°C	Peak:	700°C

All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes on any patents is the sole responsibility of the end user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage. 0121