

### DATA SHEET

Laminate: **LBAT**

**Description:** Paper base laminate with phenolic resin suitable for high tension electrical applications

According to specification	CEI 15/10	AT	Unit	Average Values	Test Method	Test Condition
	CEI EN 60893	PF CP 202				
	DIN 7735	Hp 2061.5				
	NEMA LI - 1	XX				

Physical Properties	Color		Brown		
	Specific gravity	g/cm <sup>3</sup>	1,4	IS 2036	-
	Water absorption mm 10	%	<1%	IS 2036	-
	Water absorption mm 6	Mg	225	IS 2036	-
	Thermal classification	°C	E (120° C)	IS 2036	-
	Self extinguishing		HB	UL 94	-
<b>Mechanical Properties</b>	Flexural strength	MPa	125	IS 2036	-
	Charpy impact strength	KJ/m <sup>2</sup>	20	IS 2036	-
	Tensile strenght	MPa	115	IS 2036	-
	Shear strenght	MPa	70	IS 2036	-
	Compressive strenght	MPa	300	IS 2036	-
	Modulus of elasticity	MPa	7000	IS 2036	-
<b>Dielectrical Properties</b>	Insulation resistance	MΩ	4X10 <sup>3</sup>	IS 2036	-
	Dielectric stength ⊥	MV/m	20	IS 2036	-
	Dielectric stength \\\	kV	40	IS 2036	-
	Tracking resistance	CTI	160	IS 2036	-

Material tested according to the IS 2036 standard which is not very different from the EN 60893 standard.

We inform you that the data reported on the data sheet are provided to the end user for the sole purpose of providing a range of parameters in order to assess the hypothetical suitability of the product to the actual use of the same, therefore to be considered indicative as they represent average values from laboratory tests. **The user must then test the product to determine its properties and its suitability for its intended use.**

Misolet s.r.l expressly disclaims all liability for any damage, injury and costs to persons and/or property, arising directly or indirectly from the use of the product that has not been preceded by tests with respect to the conditions of use to which the same will be intended. The data contained in this data sheet does not constitute a guarantee of any kind, express or implied, including any suitability for a particular use or purpose.

## Laminate LBAT

THICKNESS mm	TOLERANCE	Description of the properties :
0,3	± 0,06	- Stratified insulation based on cellulose paper and resin phenolic
0,4	± 0,07	
0,5	± 0,08	
0,6	± 0,09	
0,8	± 0,10	
1,0	± 0,12	
1,2	± 0,14	
1,5	± 0,15	<b>Special Properies</b> - Good mechanical properties - High insulation - It is used for air and oil AT systems
2,0	± 0,19	
2,5	± 0,22	
3,0	± 0,25	
4,0	± 0,30	
5,0	± 0,34	
6,0	± 0,37	
8,0	± 0,47	<b>Suggestion for application :</b> - To be used in particular in the field of transformers - Medium and high voltage switches
10,0	± 0,55	
12,0	± 0,62	
14,0	± 0,69	
16,0	± 0,75	
18,0	± 0,80	
20,0	± 0,86	
25,0	± 1,00	
30,0	± 1,15	
35,0	± 1,25	
40,0	± 1,35	
45,0	± 1,45	
50,0	± 1,55	

TO BE KEPT in dry stores, in a horizontal position

We are available to effect cutting to measurement as well as machining to drawing of parts by CNC.