Resiten® LEFBE

Phenolic

ITEN INDUSTRIES

Message:

Phenolic materials were first used as insulation in the electrical industry with the invention of Bakelite about one hundred years ago. Since that time, the chemistry, additives and processing have been highly refined. Today, Phenolic materials are found in all facets of our daily lives. They insulate our electric light bulbs and beautify the counter tops in our kitchens. Handles on our pots and pans withstand high temperatures. Massive mounting bases support high voltage switching equipment.
Iten Industries processes Phenolic resin into a wide range of laminates that find their way into market areas from high voltage electrical, low voltage electrical to laser engraved signage. The laminate sheets are processed by the compression molding method. A wide range of reinforcing substrates is used. A full spectrum of sizes and thicknesses is available.
PRODUCTS: ANSI / NEMA
PAPER PHENOLIC: X(P) / XX(P) / XXX(P) / XPC
CANVAS PHENOLIC: C / CE
LINEN PHENOLIC: L / LE
GLASS PHENOLIC: G3

General Information			
Features	Good Electrical Properties		
Uses	Laminates Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Compression Molding		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			
Across Flow : Yield	80.7	MPa	
Flow : Yield	105	MPa	
Flexural Strength			
-- [2]	106	MPa	
-- [3]	136	MPa	
Compressive Strength			
-- [4]	156	MPa	
-- [5]	161	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [6]			
Across Flow	43	J/m	ASTM D256
Flow	75	J/m	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	11	kV/mm	ASTM D149
Relative Permittivity			ASTM D150

1 MHz [7]	4.91		
1 MHz [8]	4.85		
Dissipation Factor			ASTM D150
1 MHz [9]	0.035		
1 MHz [10]	0.034		
Arc Resistance			ASTM D495
-- [11]	132	sec	
-- [12]	139	sec	
Dielectric Breakdown			ASTM D149
-- [13]	68000	V	
-- [14]	> 80000	V	

NOTE	
1.	Condition A
2.	Across Flow, Condition A
3.	Flow, Condition A
4.	Across Flow, Condition A
5.	Flow, Condition A
6.	E48/50
7.	D24/23
8.	Condition A
9.	D24/23
10.	Condition A
11.	D48/50
12.	Condition A
13.	D48/50
14.	Condition A

Recommended distributors for this material

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WECHAT