

Resiten® 112

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	
Tensile Strength ¹			
Across Flow : Yield	111	MPa	
Flow : Yield	165	MPa	
Flexural Strength			
-- ²	164	MPa	
-- ³	202	MPa	
Compressive Strength			
-- ⁴	121	MPa	
-- ⁵	138	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact ⁶			
Across Flow	25	J/m	
Flow	28	J/m	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (In Oil)	15	kV/mm	ASTM D149
Relative Permittivity			ASTM D150

1 MHz ⁷	6.01	
1 MHz ⁸	5.71	
Dissipation Factor		ASTM D150
1 MHz ⁹	0.053	
1 MHz ¹⁰	0.048	
Arc Resistance		ASTM D495
-- ¹¹	20.0	sec
-- ¹²	31.0	sec
Dielectric Breakdown		ASTM D149
-- ¹³	6500	V
-- ¹⁴	79100	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

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