Resiten® 113

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	115	MPa		
Flow : Yield	172	MPa		
Flexural Strength				
²	160	MPa		
³	202	MPa		
Compressive Strength				
4	107	MPa		
5	118	MPa		
Impact	Nominal Value	Unit		
Notched Izod Impact ⁶				
Across Flow	26	J/m		
Flow	30	J/m		
Electrical	Nominal Value	Unit	Test Method	
Dielectric Strength (In Oil)	6.7	kV/mm	ASTM D149	
Relative Permittivity			ASTM D150	

1 MHz ⁷	6.83				
1 MHz ⁸	6.13				
Dissipation Factor			ASTM D150		
1 MHz ⁹	0.49				
1 MHz ¹⁰	0.055				
Arc Resistance			ASTM D495		
11	9.00	sec			
12	32.0	sec			
Dielectric Breakdown			ASTM D149		
13	4000	V			
14	29100	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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