



ISO 9001: 2015 - QUALITY ASSURANCE

Distributor & Fabricator of Engineered Plastics & Electrical Insulation Products

## GRADE XX PHENOLIC SHEET

Panels, Spacers, Clamps, Supports  
Tap Carriers + Changers

Barriers, Blocks, Shields  
Coil Supports, Terminal Boards

### Physical Properties

Specific Gravity	gm / cc			1.34
Tensile Strength	PSI	lengthwise		16,000
Tensile Strength	PSI	crosswise		13,000
Compressive Strength	PSI	flatwise		33,000
Flexural Strength	PSI	lengthwise		17,000
Flexural Strength	PSI	crosswise		14,000
Hardness	Rockwell (M)			105
Water Absorption	%	24 hrs	0.062 th	1.90
			0.125 th	1.40
			0.500 th	0.60
Coefficient of Thermal Expansion	cm/cm/Celsius degree			0.0002
Heat Resistance / Maximum Constant Operating Temp				250

### Electrical Properties

Dielectric Strength	VMP	Perpendicular	0.062 th	700
			0.125 th	500
Dielectric Constant	1 Mhz	Condition A		5.5

Grade XX is a general-purpose Paper Phenolic with a balance of Mechanical and Electrical values used in medium- to high-voltage applications where stable and lasting insulation is required.

Readily available in a wide range of thicknesses and practical sheet sizes.

Values are based on typical Test Methods and Conditions and published for Reference purposes only