



Ryertex HD/M

TECHNICAL DATA BULLETIN

GRADE: 60

U. L. LISTED: No

Ryertex HD/M consists of multiple plies of heavy-weight canvas cloth (24oz/syd), twice saturated with phenolic resin and modified with a *molybdenum disulfide* which is a non-conductive additive providing internal lubrication to reduce frictional heat and extend bearing and metal shaft life when water or oil cooling is not desired. The cured material creates a homogenous construction with a black color. Ryertex HD/A laminates offer high load-bearing capacities and coefficient of thermal expansion values equivalent to those of brass and bronze but will not seize to metal shafts which reduces maintenance downtime and provides optimal part performance. Tested Thickness: .500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.40
Moisture Absorption	%	0.78
Rockwell Hardness	M Scale	67
Flexural Strength	Psi	LW – 16,200 CW – 12,700
Flexural Modulus	Kpsi	LW – 937 CW – 818
Tensile Strength	psi	LW – 10,200 CW – 6,300
Bond Strength (Condition A / D-48/50)	Lb	LW – 2,100 CW – 2,000
Shear Strength (perpendicular)	Psi	12,200
Compressive Strength (flatwise – 0.500)	psi	34,000
Izod Impact Strength -- E-48/50	Ft-lb/in Notched	6.00 2.89
THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Maximum Operating Temperature	C	125 ¹
Coefficient of Thermal Expansion	$"/^{\circ}\text{C} \times 10^{-6}$	X-Axis – 39.4 Y-Axis – 26.4

All testing per ASTM D-348 unless otherwise noted. This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. Data supplied above are "typical values"; not to be considered "specification values". It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service to determine if information is most current. ¹ This temperature is a recommendation only. The maximum operating temperature is dependent upon the application and should be tested accordingly.