

Ryertex Grade S/T

TECHNICAL DATA BULLETIN

NEMA GRADE: --

U. L. LISTED: No

Ryertex S/T is a super tough and strong phenolic thermoset constructed of a proprietary woven fabric and a soft glass material making S/T stronger and tougher than any canvas phenolic material and is less abrasive than glass fabrics. The material is impregnated with a high temperature phenolic resin and moly-disulfide dry lubricant. S/T has superior mechanical properties at elevated temperatures with no creepage and performs on par with brass or bronze. It is well suited for heavy industrial applications requiring high performance and long operating life in the harshest conditions. Applications include bearings, bushings, and other wear components requiring high heat, high load, and/or self-lubricating properties. Variations of this material may be developed for specific applications.

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity (ASTM D792)	-	1.54
Moisture Absorption (ASTM D570)	%	1.94
Rockwell Hardness (ASTM D785)	M Scale	95
Flexural Strength (ASTM D790)	Psi	LW - 36,700 CW - 17,500
Tensile Strength (ASTM D638)	psi	LW - 25,600 CW - 9,700
Izod Impact Strength (ASTM D256)	Ft-lb/in	LW - 22.9 CW - 7.30
Compressive Strength (flatwise) (ASTM D695)	psi	40,700
Bonding Strength ASTM (D229)	Lb	2,400
Maximum Operating Temperature	°C	200
Coefficient of Thermal Expansion (IPC-TM 650-2.4.24)	"/°Cx10 ⁻⁶	X Axis – 27.0 Y Axis – 39.8

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. This temperature is a recommendation only. The maximum operating temperature is dependent upon the application and should be tested accordingly.