



Ryertex Grade P/G (plate)

TECHNICAL DATA BULLETIN

GRADE: G3

U. L. LISTED: No

DESCRIPTION: Ryertex P/G is made of a woven glass fabric impregnated with a high temperature phenolic resin. This combination creates a product that offers excellent creep resistance along with very good flexural, compressive and impact strengths at continuous temperatures up to 175C.

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity ASTM D792 -- 0.500"	-	1.80
Moisture Absorption ASTM D570 / Condition A -- 0.0625"	%	2.00
Rockwell Hardness ASTM D785 -- 0.125"	M Scale	110
Flexural Strength ASTM D790 / Condition A -- 0.063"	Psi	55,000 LW 50,000 CW
Flexural Modulus ASTM D790 / Condition A -- 0.063"	kpsi	1,800 LW 1,400 CW
Tensile Strength ASTM D638 / Condition A -- 0.125"	psi	42,000 LW 34,000 CW
Shear Strength ASTM D732 / Condition A -- 0.063"	Psi	18,000
Izod Impact Strength ASTM D256 / Condition E-48/50 -- 0.500"	Ft-lb/in	12.00 LW 11.00 CW
Compressive Strength ASTM D695 / Condition A -- 0.500"	Psi	76,000
Bonding Strength ASTM D229 / Condition A -- 0.500"	Lb	1,500
THERMAL PROPERTIES	UNITS	VALUE
Temperature Index UL Bulletin 746b -- 0.125"	°C	140 - 175
Coefficient of Thermal Expansion IPC-TM 650-2.4.24 -- 0.125"	"/°C X10 ⁻⁶	15.0 Y-Axis 18.0 Y-Axis
Flammability Rating UL Bulletin 94 / Condition A -- 0.063"		HB
ELECTRIC PROPERTIES	UNITS	VALUE
Arc Resistance ASTM D495 / Condition A -- 0.125"	Sec	100
Comparative Tracking Index ASTM D3638	Volts	150
Breakdown Voltage ASTM D149 / Condition A / 0.063"	kV	55
Electric Strength ASTM D149 / Condition A -- 0.063"	v/mil	600

This data is believed to be accurate and based on general analytical data but is for informational use only. Data supplied above is considered "typical values" and not to be considered specific. It is the responsibility of the end user to insure they test the material to the application for assurance of compliance. The temperature is a recommendation only. The maximum operating temperature is dependent upon the application and should be tested.