

GPM-100

Flat Sheet Laminate

- Low cost alternative to G-11
- Easily machined

	Procedure	GPM-100 Mean test values reported
General Information		
Standard Color	-	Brown
Chemical Resistance	-	-
Mechanical Properties		
Tensile Strength LW at 77°F (25°C) in Psi (Mpa)	ASTM D 638	17,000 (117)
Tensile Strength CW at 77°F (25°C) in Psi (Mpa)	ASTM D 638	21,000(144)
Tensile Modulus at 77°F (25°C) in Psi. 1 x 10 ⁶ (Mpa)	ASTM D 638	2.6 (.018)
Flexural Strength LW at 77°F (25°C) in Psi (Mpa)	ASTM D790	50,000 (344)
Flexural Strength CW at 77°F (25°C) in Psi (Mpa)	ASTM D 790	60,000 (413)
Flexural Strength LW at 212°F (100°C) in Psi (Mpa)	ASTM D 790	42,000 (289)
Flexural Strength CW at 212°F (100°C) in Psi (Mpa)	ASTM D 790	46,000 (317)
Flexural Modulus at 77°F (25°C) in Psi 1 x 10 ⁶ (Mpa)	ASTM D 790	1.3 (.009)
Comp. Strength, Vert. (Flat) at 77°F (25°C) in Psi (Mpa)	ASTM D 695	60,000 (413)
Comp. Strength, Vert.(Flat) at 302°F (150°C) in Psi (Mpa)	ASTM D 695	37,000 (255)
Comp. Strength, Horz.(edge) at 77°F (25°C) in Psi (Mpa)	ASTM D 695	33,500 (230)
Comp. Strength, Horz.(edge) at 302°F (150°C) in Psi (Mpa)	ASTM D 695	14,000 (96)
IZOD Impact Strength LW/CW in Ft.Lb./In. (J/cm)	ASTM D 256	7 (3.7)
Barcol Hardness	ASTM D 2583	80 - 90
Water Absorption in % by Weight	ASTM D 570	<0.2%
Specific Gravity	ASTM D 792	1.9
Glass Content	-	65.5%***
Electrical Properties		
Electric Strength – Perpendicular S/T in Air in Vpm	ASTM D149	300 (11.8)
Electrical Strength – Perpendicular S/T in Oil	ASTM D149	-
Electric Strength – Parallel S/S in Oil in kV	ASTM D149	40
Arc Resistance in Seconds	ASTM D495	180
Inclined Plane Track Resistance – 1/8" thick in Minutes	ASTM D2303	-
Surface Resistivity (Ohms)	ASTM D 257	-
Volume Resistivity (Ohms)	ASTM D 257	-
Flame-Resistance Properties		
UL Subject 94	UL 94	HB
Thermal Properties		
Coefficient of Thermal Expansion (para.) K ⁻¹	ASTM D 696	-
Coefficient of Thermal Expansion (perp.) K ⁻¹	ASTM D 696	-
Glass Transition Temperature T _g , in °F (°C), DMA test	ASTM E	162
Thermal Decomposition Temperature T _d in °F (°C) @1% loss	ASTM E 1641	590°F (310°C)
@5% loss		730°F (388°C)
Loss on Ignition (%)	UL 746A	73%
UL Temperature Index	-	155 (anticipated)

-The above values are measured averages and not guaranteed.

All - Typical values, after post-baking.

* - Values are an average of typical L.W. and C.W. values.

** Values taken from either website of Permal / Norplex / G-11 comparison table.

*** Calculated from construction.

Röchling Glastic Composites
 4321 Glenridge Road
 Cleveland, OH 44121 USA
 Tel: 216-486-0100
 Fax: 216-486-1091
www.glastic.com

All of the information, suggestions, and recommendations pertaining to the properties and uses of the Röchling Glastic Composites products described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. THERE IS NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Under no circumstances shall we be liable for incidental or consequential loss or damage.

Glastic® is a registered trademark of Röchling Glastic Composites. UL® is a registered trademark of Underwriters Laboratories, Inc.

©2007 Röchling Glastic Composites. All Rights Reserved. Printed in USA. GPM-100.1

