



# RESIN SYSTEM: GP 454



## Tg (GLASS TRANSITION TEMPERATURE)

Tg	Compositon
458°F / 237°C	Neat Resin
433°F / 222°C	Laminate

## TYPICAL MATERIAL PROPERTIES (Laminate)

TEMPERATURE °F	Tensile Strength Ksi	Tensile Modulus Msi	Flex Strength Ksi	Flex Modulus Msi	Compressive Strength Ksi	Compressive Modulus Msi	Shear Strength psi
72	71.19	4.00	89.54	3.40	65.86	3.58	3256
392	50.27	2.74	51.76	2.47	42.39	3.51	3084

## EXPOSURE TO WATER @ HIGH PRESSURE | Test Specimens - 1/8" thick x 2" dia plate, edge not sealed

Weight Gain (%)		Time (Hours)	Temp (°F)	Pressure (Ksi)
Neat Resin	Laminate			
0.2	0.34	4	72	20
1.51	1.75	4	300	20
2.21	1.89	12	300	20

## EXPOSURE TO WATER @ AMBIENT PRESSURE

Weight Gain (%)		Time (Days)	Temp (°F)
Neat Resin	Laminate		
1.34	0.27	1	200
2.21	0.28	2	200
2.64	0.45	7	200
2.98	0.55	14	200
3.30	0.61	28	200
3.67	0.56	56	200
4.01	0.78	98	200

## CTE (Coefficient of Thermal Expansion) by TMA - Neat Resin

Temperature	CTE in/in/°F
72 to 300°F	36.17 x 10 <sup>-6</sup>

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