ASLAN™ 400

CARBON FIBER REINFORCED POLYMER (CFRP) LAMINATES FOR **STRUCTURAL STRENGTHENING**

PHYSICAL & MECHANICAL PROPERTIES

Size Designation				Nominal Area		f^*_{fu} Garanteed Tensile Strength		Ultimate Tensile Load		E_f Tensile Modulus of Elasticity		Ultimate Strain
Width in	**Width** mm	**Thickness** in	**Thickness** mm	mm^2	in^2	MPa	ksi	kN	kips	GPa	psi 10^6	%
2	50	0.055	1.4	70	0.1102	2400	350	168	38.57	131	19	1.87%
4	100	0.055	1.4	140	0.2204	2400	350	336	77.14	131	19	1.87%

We reserve the right to make improvements in the product and/or process which may result in benefits or changes to some physical-mechanical characteristics. The data contained herein is considered representative of current production and is believed to be reliable and to represent the best available characterization of the product as of July 2011. Tensile tests per ASTM D3039.

DESIGN TENSILE & MODULUS PROPERTIES per ASTM D3039

The area used in calculating the tensile strength is the nominal cross sectional area. The "Guaranteed Tensile Strength", f^*_{fu} is as defined by ACI 440.1R as the mean tensile strength of a given production lot, minus three times the standard deviation or $\mathbf{f^*_{fu} = f_{u,ave} - 3\sigma}$. The "Design or Guaranteed Modulus of Elasticity is as defined by ACI 440.1R as the mean modulus of a production lot or $\mathbf{E_f = E_{f,ave}}$.

TRANSITION TEMPERATURE OF RESIN T_g > 230°F (110°C)

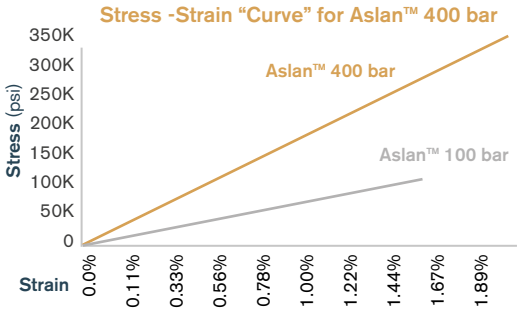
per DSC method

MATERIAL CERTS

Material test certs are available for any production lot of Aslan™ 400 Laminate.

DENSITY

Size Designation		Unit Weight/length	
Size	**mm**	**kg/m**	**lbs/ft**
2"	50	0.1637	0.11
4"	100	0.2976	0.20



ASLAN™ 400 SOLUTION "SYSTEM" ~ Approved Adhesives. The following high strength structural adhesives are recommended for use.

- Pilgrim EM 5-2 Gel
- DeNeef Enforce CFL Gel
- SikaDur 30

AMERICAS

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