

ASLAN™ 500

CARBON FIBER REINFORCED POLYMER (CFRP) TAPE FOR STRUCTURAL STRENGTHENING

PHYSICAL & MECHANICAL PROPERTIES

Size Designation		Nominal Area		f* _{tu} Guaranteed Tensile Strength		Ultimate Tensile Load		E _t Tensile Modulus of Elasticity		Ultimate Strain		
Size	mm	Dimension		mm ²	in ²	MPa	ksi	kN	kips	GPa	psi 10 ⁶	%
2	6	0.079" × 0.63"	2mm × 16mm	32	0.049	2241	325	71	15.92	124	18	1.81%
3	10	0.177" × 0.63"	4.5mm × 16mm	71	0.110	2172	315	154	34.65	124	18	1.75%

*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 7205.

DESIGN TENSILE & MODULUS PROPERTIES per ASTM 7205

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

MATERIAL CERTS & TRACEABILITY

Available for any production lot of Aslan™ 500 bar traceable by stock order and production date.

DENSITY

Size Designation		Unit Weight/length	
Size	mm	kg/m	lbs/ft
2"	50	0.052	0.035
4"	100	0.112	0.075

NSM GROOVE DIMENSIONS ≥ 1.5 b_b for depth
 ≥ 3.0 a_b for width

ASLAN™ 500 SOLUTION

"SYSTEM" ~ Suggested Adhesives

The following high strength structural adhesives has been used successfully.

- > Pilgrim EM 5-2 Gel
- > Pilgrim Magmaflow CF
- > BASF Concreive 1420 & Concreive LPL
- > DeNeef Enforce CFL Gel
- > Unitex Pro-poxy 400

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

Owens Corning Composite Materials, LLC.
 One Owens Corning Parkway
 Toledo, OH 43659
 +1 402 646 6262
 1-800-GET-PINK™

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