ASLAN™ 400
CARBON FIBER REINFORCED POLYMER (CFRP) LAMINATES
FOR STRUCTURAL STRENGTHENING

PHYSICAL & MECHANICAL PROPERTIES

<table>
<thead>
<tr>
<th>Size Designation</th>
<th>Nominal Area</th>
<th>f*fu, Guaranteed Tensile Strength</th>
<th>Ultimate Tensile Load</th>
<th>E, Tensile Modulus of Elasticity</th>
<th>Ultimate Strain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width in</td>
<td>Thickness in</td>
<td>Width mm</td>
<td>Thickness mm</td>
<td>mm²</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>0.055</td>
<td>1.4</td>
<td>70</td>
<td>0.1102</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>0.055</td>
<td>1.4</td>
<td>140</td>
<td>0.2204</td>
</tr>
</tbody>
</table>

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 f*fu = fu,ave – 3σ. The “Design or Guaranteed Modulus of Elasticity is as defined by ACI 440.1R as the mean modulus of a production lot or Ef = Ef,ave.

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

MATERIAL CERTS

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

DENSITY

<table>
<thead>
<tr>
<th>Size Designation</th>
<th>Weight/length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Size mm</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot;</td>
<td>50</td>
</tr>
<tr>
<td>4&quot;</td>
<td>100</td>
</tr>
</tbody>
</table>

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

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