

ENVIRONMENTAL COMPOSITES

DARLYN 1100 CB

DARLYN 1100 CB is a Versiv material composed of extremely robust and high strength woven fibreglass coated with PTFE and PTFE/fluoroelastomer alloys. It is laminated with a multi-layer cast PTFE film on one side to provide zero porosity and enhanced chemical resistance. The reliability and durability of Darlyn1100 CB in the most severely corrosive environments is attributable to the incorporation of a fluoroelastomer alloy in the coating matrix in addition to the multiple layers of PTFE. This results in a fluorinated elasto-plastic which combines the most desirable properties of both perfluoroplastics and fluoroelastomers.

TYPICAL PROPERTIES

PROPERTY	METRIC		IMPERIAL		TEST METHOD
Standard Widths	1450	mm	57.1	in	-
Weight	2370	g/m ²	69.9	oz/yd ²	FTMS 191A-5041
Thickness	1.400	mm	55.1	mil	FTMS 191A-5030
Tensile Strength	2300 x 2400	N/cm	1313 x 1370	lb/in	FTMS 191A-5102
Trap Tear Strength	1130 x 1800	N	254 x 404.7	lb	FTMS 191A-5136
Temperature Resistance	-150 to +260	°C	-99 to +500	°F	-
PTFE Content	55 %				-

FEATURES AND BENEFITS

- Thermally stable from -73 to +260 °C
- Outstanding mechanical strength
- Zero porosity

This material is the preferred choice worldwide for expansion joints in flue gas desulphurisation power plants and similar processes due to its outstanding chemical resistance in the harshest of conditions and superior strength retention even after repeated flexing.

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IMPORTANT: Pictures shown are for illustration purpose only. The values presented are typical values and should not be used for specification purposes. Contact your representative for more information. It is the user's responsibility to ensure the suitability and safety of Versiv Composites products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Versiv Composites Limited assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication, or application of the products into which the materials are incorporated by purchaser and/or user.

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