

## Aero-Mat "Soric® XF"



"Lantor Soric® XF" Aero-Mat is a flexible honeycomb foam mat used to add structure and thickness to composite laminates. The compression resistant hexagonal cell structure and resin flow channels make Aero-Mat ideal as a core material and infusion medium in one.

Unlike standard cell honeycomb, Aero-Mat is very flexible and will conform to compound shapes. The pressure resistant cells create thickness in the laminate without the added weight of extra fabric layers. It is ideally suited for reinforcing curved laminations where additional stiffness is needed.

### Physical Properties

Product	XF 2	XF 3
Thickness	.078" (2mm)	.118" (3mm)
Thickness Loss at 0.8 bar	<10%	<10%
Max Processing Temperature	338°F (170°C)	338°F (170°C)
Resin Uptake	29.49 oz/yd <sup>2</sup> (1.0 kg/m <sup>2</sup> )	41.29 oz/yd <sup>2</sup> (1.4 kg/m <sup>2</sup> )
Dry Weight	3.69 oz/yd <sup>2</sup> (125 g/m <sup>2</sup> )	5.16 oz/yd <sup>2</sup> (175 g/m <sup>2</sup> )
Density Impregnated	16,181 oz/yd <sup>3</sup> (600 kg/m <sup>3</sup> )	16,181 oz/yd <sup>3</sup> (600 kg/m <sup>3</sup> )

### Technical Properties

Flexural Strength	1,160 psi
Flexural Modulus	116,030 psi
Tensile Strength across layers	580 psi
Compression Strength 10% strain	1,160 psi
Shear Strength	508 psi
Shear Modulus	5,076 psi

Technical information displayed reflects the typical mechanical properties of Lantor Soric® XF 3 impregnated with unsaturated polyester resin.

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.