

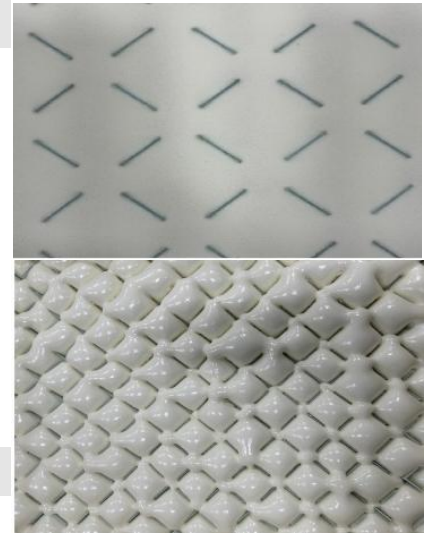
# 产品参数表

## TCORE® Ultra Foam

### 系列结构泡沫

#### 产品特性/Product Properties

- |                   |   |
|-------------------|---|
| • 丰富的材料种类和较高的可设计性 | • Rich Material Types and higher designability      |
| • 优秀的抗弯强度         | • Excellent bending strength                        |
| • 优秀的耐疲劳性和损伤容限    | • Excellent Fatigue Resistance and Damage Tolerance |
| • 适应不同的应用工艺       | • Ideal for different manufacturing processes       |
| • 树脂兼容性好          | • Excellent compatibility with different resin      |
| • 良好的机械性能         | • Good mechanical properties                        |
| • 可循环利用           | • Recyclable  |



#### 应用领域/Applications

- |   |   |
|---|---|
| <b>• 风能:</b><br>风机叶片、机舱罩等                 | <b>• Wind energy:</b><br>Rotor blades, nacelles, ...  |
| <b>• 船舶:</b><br>船体、甲板、舱壁等                 | <b>• Marine:</b><br>Hulls, decks, bulkheads, ...  |
| <b>• 公路和轨道交通:</b><br>顶板、内部结构、地板、隔墙、侧缘、车头等 | <b>• Road and Rail:</b><br>Roof panels, interiors, floors, partition walls, side skirts, frontends, ... |
| <b>• 航空:</b><br>内部结构、整流罩、厨房推车、民用飞机等       | <b>• Aircraft and Aerospace:</b><br>Interiors, radomes, galley carts, general aviation, ...             |
| <b>• 休闲:</b><br>雪橇、滑雪板、冲浪板等               | <b>• Recreational sports:</b><br>Skis, snowboards, surfboards, ...                                      |
| <b>• 工业:</b><br>工装、罐、支撑板、盖板等              | <b>• Industries:</b><br>Tooling, tanks, Supporting components, covers, ...                              |

UltraFoam在发泡过程中植入增强材料，根据增强体含量、类型可以实现不同性能增强。增强后的泡沫仍然具备开槽、打孔等加工能力，不影响树脂灌注和导流。

The UltraFoam is implanted with a reinforcement material during the foaming process, enabling different performance enhancements depending on the content and type of reinforcement. The enhanced foam still has the processing ability of slotting and punching, without affecting the resin perfusion and diversion.

#### 应用工艺/ Applicable Processes

- |             |                           |
|-------------|---------------------------|
| • RTM 及真空导流 | • RTM and Vacuum Infusion |
| • 粘结        | • Adhesive Bonding        |
| • 预浸处理      | • Pre-preg Processes      |

典型性能/Typical Performance		单位/unit	UltraFoam (平板)	UltraFoam (壳体)
密度范围 Density Range	ASTM - D1622	Kg/m <sup>3</sup>	140-160	280-300
压缩强度 Compressive Strength	ASTM - D1621	MPa	6.0	7.0
压缩模量 Compressive Modulus	ASTM - D1621	MPa	700	800
拉伸强度 Tensile Strength	ASTM - D1623	MPa	2.3	4.0
拉伸模量 Tensile Modulus	ASTM - D1623	MPa	600	800
13 剪切强度 13Shear Strength	ASTM - C273	MPa	1.2	2.0
13 剪切模量 13Shear Modulus	ASTM - C273	MPa	230	290
23 剪切强度 23Shear Strength	ASTM - C273	MPa	1.2	2.0
23 剪切模量 23Shear Modulus	ASTM - C273	MPa	170	220

## 备注/Notes:

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