

## **Technical Data Sheet**

### **Fabric Type HYBRID Bas/Carbon 940.1200.P**

Woven fabric for composite applications, is made of BCF (basalt continuous filament) roving and carbon roving.

The first code 940 is the surface density in g/m<sup>2</sup>

The second code 1200 is the width of the fabric in mm. The third code indicates the weave.

| Property                      | Standard/Method | Unit             | Value                   | Tolerance |
|-------------------------------|-----------------|------------------|-------------------------|-----------|
| <b>Base material</b>          |                 |                  |                         |           |
| <b>basalt roving 1200 tex</b> |                 |                  |                         |           |
| -tensile strength             | ASTM D2343      | MPa              | 2700-3200               |           |
| -E-modulus                    |                 | GPa              |                         |           |
| <b>24K carbon roving</b>      |                 |                  |                         |           |
| -tensile strength             | DIN 65382       | MPa              | 4300                    |           |
| -E-modulus                    |                 | GPa              |                         |           |
| <b>Fabric</b>                 |                 |                  |                         |           |
| Specific surface weight*      | ISO 3374:2000   | g/m <sup>2</sup> | 940                     |           |
| Weave type*                   |                 |                  | Plain                   |           |
| Yarn density/type*:           |                 |                  |                         |           |
| - warp                        |                 | ends/cm          | 3.3 (24K carbon roving) |           |
| - weft                        |                 | ends/cm          |                         |           |
| Width*                        | ISO 5025:1997   | mm               | 1200                    | -0/+20    |
| Thickness                     | ISO 4603:1993   | mm               | 0.93                    |           |
| Moisture content (fabric)     | ISO 3344:1997   | %                | <0.3                    |           |

\*properties given on the "Quality Report" coming with each product delivery

#### Packaging

Fabric length is approximately 500 lm per roll. Other length on request. Roll tube has internal diameter of 150 mm. Identification label. Standard packing.

#### Product Stability:

BASALTEX™ Products have not been designed for full external exposure conditions and cannot be guaranteed for use in such situations. However, these BASALTEX™ products have considerable tolerance to damp conditions and occasional water immersion. After drying out, the product will give the same level of performance as the original sample.

#### Stability over time:

Said products not being subjected to excessive heat, wear and abrasion, all evidence obtained to date indicates that their performance should not significantly change over a significant period of time. It is the responsibility of the developer of the end-product, finished device or system to test its performance in the end-application.