

## Technical Data Sheet

### Robaflow®

#### Product characteristics

- Good mechanical properties
- Very wear, cutting and scratch resistant
- Physiologically safe

#### Product applications

- Paper industry / headbox vanes

|                                                    | Test method             | Unit                 | Value             |
|----------------------------------------------------|-------------------------|----------------------|-------------------|
| <b>Propriétés générales</b>                        |                         |                      |                   |
| Density                                            | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 0,96              |
| Water absorption                                   | DIN EN ISO 62           | %                    | <0,01             |
| Inflammabilité (Épaisseur 3 mm / 6 mm)             | UL 94                   |                      | HB                |
| <b>Propriétés mécaniques</b>                       |                         |                      |                   |
| Limite d'élasticité                                | DIN EN ISO 527          | MPa                  | 27                |
| Élongation                                         | DIN EN ISO 527          | %                    | >50               |
| Module d'élasticité                                | DIN EN ISO 527          | MPa                  | 1200              |
| Notched impact strength                            | DIN EN ISO 179          | kJ / m <sup>2</sup>  | no break          |
| Shore hardness                                     | DIN EN ISO 868          | scale D              | 65                |
| <b>Propriétés thermiques</b>                       |                         |                      |                   |
| Température de fusion                              | ISO 11357-3             | °C                   | 135               |
| Thermal conductivity                               | DIN 52612-1             | W / (m * K)          | 0,4               |
| Thermal capacity                                   | DIN 52612               | kJ / (kg * K)        | 1,9               |
| Coefficient de dilatation thermique linéaire       | DIN 53752               | 10 <sup>-6</sup> / K | 150 - 230         |
| Température de service, à long terme               | Average                 | °C                   | -100 ... 80       |
| Température de service, court terme (max.)         | Average                 | °C                   | 100               |
| Vicat softening temperature                        | DIN EN ISO 306, Vicat B | °C                   | 79                |
| <b>Propriétés électriques</b>                      |                         |                      |                   |
| Dielectric constant                                | IEC 60250               |                      | 2,3               |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250               |                      | 0,0002            |
| Volume resistivity                                 | DIN EN 62631-3-1        | Ω * cm               | >10 <sup>14</sup> |
| Résistivité de surface                             | DIN EN 62631-3-2        | Ω                    | >10 <sup>14</sup> |
| Comparative tracking index                         | IEC 60112               |                      | 600               |
| Dielectric strength                                | IEC 60243               | kV / mm              | 45                |

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.