

Technical data sheet for FOREX[®] classic

FOREX[®] classic is a slightly expanded closed-cell rigid plastic sheet material with a particularly fine and homogeneous cell structure and silky matt surfaces.

Technical data at a glance

| | | | 1 – 4 mm colours | 5 – 19 mm |
|---|-------------------------------------|-------------------|---------------------|--------------|
| Apparent density | DIN 53 479 | kg/m ³ | 700 | 500 |
| Tensile strength | DIN EN ISO 527-1/2 | MPa | 16 | 10 |
| Elongation at break | DIN EN ISO 527-1/2 | % | 34 | 30 |
| E-Modulus (in tension) | DIN EN ISO 527-1/2 | MPa | 860 | 500 |
| Flexural strength | EN ISO 178 | MPa | 28 | 20 |
| E-Modulus (in flexure) | EN ISO 178 | MPa | 1300 | 750 |
| Impact strength | DIN 53 453 | kJ/m ² | 15 | 15 |
| Surface hardness | DIN 53 505 | Shore D | >40 | >40 |
| Vicat (A) softening temperature | DIN EN ISO 306 | °C | 80 | 78 |
| Coefficient of linear expansion | DIN EN ISO 75-2 | mm/(m·K) | 0,056 | 0,066 |
| Coefficient of thermal conductivity λ | DIN EN ISO 12664 / 12667 / 12939 | W/(m·K) | 0,081 | 0,066 |
| Water absorption (23°C – 24 h) | DIN EN ISO 62 | % | <1 | <1 |
| Behaviour in fire (Switzerland) | Fire index | | 5.3 | 5.3 |
| Behaviour in fire (Germany) | DIN 4102, Teil 1 | | B1 | B1 |
| Behaviour in fire (France) | NF P 92-501 | | M1 | M1 |
| Behaviour in fire (Great Britain) | BS 476, Part 7 | 3 – 19 mm | Class 1 | Class 1 |
| Behaviour in fire (Italy) | CSE-RF 2/75, 3/77 | | Classe 1 | Classe 1 |
| Behaviour in fire (USA) (International) | UL94 | | 94V-0 | 94V-0 |

Additional information

Information on other properties and characteristics of this product is available on request. A separate material safety data sheet describes FOREX[®] classic expanded rigid plastic sheets with regard to safety requirements.

The data given here are standard values for average density material. Slight deviations may occur dependent on sheet thickness and as a result of the process-inherent anisotropy of the material. All information is based on our current state of knowledge. However, no warranty is made for the accuracy of the data or for the results obtained from the use of this information.