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/m³	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/m²	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.

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