



## Technical data

## VEKAPLAN S-FR

Properties	Norm	Guide values
Thickness [mm]		8; 10; 13; 15; 17
Density [g/cm <sup>3</sup> ]	DIN EN ISO 1183	0,43 - 0,53
E-Modulus [Mpa]	ISO 527 (50mm/min)	*1050
Impact resistance (Charpy) [kJ/m <sup>2</sup> ]	ISO 179/1eU	*20
Notched impact resistance [MPa]	ISO 527 (50mm/min)	*11
Flexural strength [MPa]	ISO 178 (2mm/min)	*21
Shore-Hardness D	ISO 868	50-70
Surface resistance ROE [Ω]	DIN IEC 60 167	2,00E+14
Dielectric strength RD [Ωcm]	DIN IEC 60 093	1,86E+14
Dielectric constant ε <sub>r</sub>	DIN 53 483	1,6-1,8
Coefficient of expansion [10 <sup>4</sup> /K]	DIN 53 752	6·10 <sup>-5</sup>
Compressive strength [N/mm <sup>2</sup> ]	DIN 53 421	~3,5
Vicat-Softening point [°C]	ISO 306 (B 50)	49
Heat distortion temperature [°C]	ISO 75-2 (1,8 Mpa)	57
Water absorption [%]	ISO 62 (after 216h)	4,9
Water vapour – diffusion equivalent [m]	DIN 52 615	157 (for 10mm)
Fire behaviour	DIN EN 13501-1	C-s3,d2
	BS 476-7	Class 1 / 10mm
	NFP 92-512	M1 / 17mm

\* following the standard

Properties	Norm	VEKAPLAN S-FR			
thickness [mm]		8	10	13	17
Thermal conductivity [W/mK]	DIN 52 612	0,049	0,051	0,053	0,057
U-value [W/m <sup>2</sup> K]	DIN 52 612	3,0	2,8	2,4	2,2
Sound isolation [dB]	DIN ISO 717-1	26	27	28	30