VEKAPLAN
ALWAYS THE IDEAL SOLUTION

VEKAPLAN S / VEKAPLAN S-FR*				
Properties	**Norm**	**Value**		
Thickness [mm]		8; 10; 13; 15; 17	19; 24	30
Density [g/cm³]	DIN EN ISO 1183	0,43 - 0,50	0,43 - 0,50	0,45 - 0,55
E-Modulus [Mpa]	ISO 527 (50mm/min)	1050	1050	1050
Impact resistance (Charpy) [kj/m²]	ISO 179/1eU	20	20	20
Tensile strength [MPa]	ISO 527 (50mm/min)	11	11	11
Flexural strength [MPa]	ISO 178 (2mm/min)	21	21	21
Shore Hardness D	ISO 868	50 - 70	60 - 70	60 - 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 εr	DIN 53 483	1,6-1,8	---	---
Coefficient of expansion [10⁴/K]	DIN 53 752	$6 \cdot 10^{-5}$	$6 \cdot 10^{-5}$	$6 \cdot 10^{-5}$
Compressive strength [N/mm²]	DIN 53 421	~3,5	---	---
Vicat-Softening point [°C]	ISO 306 (B 50)	49	49	49
Heat distortion temperature [°C]	ISO 75-2 (1,8 Mpa)	57	57	57
Water absorption [%]	ISO 62 (nach 216h)	4,9	4,9	4,9
Water vapour – diffusion equivalent Sd [m]	DIN 52 615	157 (10mm)	---	---
Fire behavior	NFP 92-512	M1	10; 13; 15; 19mm on request	
	DIN EN 13501-1	Class E		
		VEKAPLAN S-FR*		
		B-s3,d2	10; 13; 15mm	
		B-s3,d0	17; 19; 24mm	
	BS 476-7	Class 1	10mm	
	NFP 92-512	M1	17mm	

Properties	Norm	VEKAPLAN S / S-FR*						
Thickness [mm]		8	10	13	17	19	24	30
Thermal conductivity [W/mK]	DIN 52612	0,049	0,051	0,053	0,057	0,060	0,062	0,067
U-Value [W/m²K]	DIN 52612	3,0	2,8	2,4	2,2	2,0	1,8	1,6
Sound isolation [dB]	DIN ISO 717-1	26	27	28	30	30	31	32