



VEKAPLAN S u. S-FR

Properties

Properties	VEKAPLAN S / VEKAPLAN S-FR*				
Thickness [mm]	Norm	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 ε _r	DIN 53 483	1,6-1,8	---	---	
Coefficient of expansion [10 ⁴ /K]	DIN 53 752	6·10 ⁻⁵	6·10 ⁻⁵	6·10 ⁻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 S _d [m]	DIN 52 615	157 (10mm)	---	---	
Fire behaviour	DIN 4102	B2	---	B2	
	NFP 92-512	---	M1 / 19mm*	---	
	DIN EN 13501-1	---	C-s3,d0 "schwerentflammbar"	---	
		VEKAPLAN S-FR*			
		B-s3,d2 "schwerentflammbar"	---	---	
		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