Technical datasheet

PVC rigid foam integral foam (polyvinylchlorid foamed)

Example of application
› Booth construction and interior construction › Machine covers › Displays

Advantage	Disadvantages
› Low weight › Printable	› Minimal low-temperature flexibility

Basic information	Specification
Format	**Sheets:** 10 mm up to 1.000 mm available in 2 m x 1 m

Physical properties	Standard term/Specification*			Unit	Testing method
	(a)*	(b)*	(c)*		
Density	0.43 up to 0.50	0.43 up to 0.50	0.45 up to 0.55	g/cm³	DIN EN ISO 1183
Moisture ingress	4.9	4.9	4.9	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*			Unit	Testing method
	(a)*	(b)*	(c)*		
Tensile strength	11	11	11	N/mm²	DIN EN ISO 527
Elongation at break	n.sp.	n.sp.	n.sp.	%	DIN EN ISO 527
E-module	1.050	1.050	1.050	N/mm²	DIN EN ISO 527
Notch toughness	20	20	20	kJ/m²	DIN EN ISO 179
Rockwellhardness	50 up to 70	60 up to 70	60 up to 70	°Shore D	ISO 868

Thermal properties	Standard term/Specification*			Unit	Testing method
	(a)*	(b)*	(c)*		
Thermal conductivity	0.049	0.060	0.067	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.6	0.6	0.6	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.2	1.2	1.2	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	n.sp.	n.sp.	n.sp.	°C	
Max. operating temperature, long-term	n.sp.	n.sp.	n.sp.	°C	

Electrical properties	Standard term/Specification*			Unit	Testing method
	(a)*	(b)*	(c)*		
Resistance	$1.86 \cdot 10^{14}$	n.sp.	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	$2 \cdot 10^{14}$	n.sp.	n.sp.	Ω	DIN IEC 60093
Puncture resistance	n.sp.	n.sp.	n.sp.	kV/mm	

Legend
n.sp.= not specified

*(a) = 8, 10, 13, 15 and 17 mm thickness; (b) = 19 and 24 mm thickness; (c) = 30 mm thickness

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