Technical datasheet

PVC rigid foam foamed free (polyvinylchlorid foamed free)

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:** 2 – 6, 8 and 10 mm available in 1.22 / 1.56 / 2.03 m x 2.44 / 3.05 m

Physical properties	Standard term/Specification*		Unit	Testing method
	(a)**	(b)**		
Density	0.65	0.55	g/cm³	DIN EN ISO 1183
Moisture ingress	0.9	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*		Unit	Testing method
	(a)**	(b)**		
Tensile strength	19.5	19.5	N/mm²	DIN EN ISO 527
Elongation at break	n.sp.	n.sp.	%	DIN EN ISO 527
E-module	1.100	1.100	N/mm²	DIN EN ISO 527
Notch toughness	3.1	n.sp.	kJ/m²	DIN EN ISO 179
Rockwellhardness	47	42	°Shore D	ISO 868

Thermal properties	Standard term/Specification*		Unit	Testing method
	(a)**	(b)**		
Thermal conductivity	n.sp.	0,048	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.6	n.sp.	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.2	n.sp.	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	n.sp.	n.sp.	°C	
Max. operating temperature, long-term	n.sp.	n.sp.	°C	

Electrical properties	Standard term/Specification*		Unit	Testing method
	(a)**	(b)**		
Resistance	n.sp.	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	$> 2 \cdot 10^{14}$	$> 2 \cdot 10^{15}$	Ω	DIN IEC 60167
Puncture resistance	n.sp.	n.sp.	kV/mm	

Legend
n.sp.= not specified

* Higher specification on request. ; ** (a) = 2 – 4 mm thickness ; (b) = 5 – 10 mm thickness

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transparent plastics

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