

# Technical datasheet

## PVC rigid foam integral foam (polyvinylchlorid foamed)

<b>Example of application</b>					
<ul style="list-style-type: none"> <li>› Booth construction and interior construction</li> <li>› Machine covers</li> <li>› Displays</li> </ul>					
<b>Advantage</b>			<b>Disadvantages</b>		
<ul style="list-style-type: none"> <li>› Low weight</li> <li>› Printable</li> </ul>			› Minimal low-temperature flexibility		
<b>Basic information</b>		<b>Specification</b>			
<b>Format</b>		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/cm <sup>3</sup>	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/mm <sup>2</sup>	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/mm <sup>2</sup>	DIN EN ISO 527
Notch toughness	20	20	20	kJ/m <sup>2</sup>	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 <sup>-1</sup> ·10 <sup>-4</sup>	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	1.86·10 <sup>14</sup>	n.sp.	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	2·10 <sup>14</sup>	n.sp.	n.sp.	Ω	DIN IEC 60093
Puncture resistance	n.sp.	n.sp.	n.sp.	kV/mm	
<b>Legend</b>					
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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