

# HYGIENIK WALL LINING K-PANEL

Polyvinylchloride rigid

## TECHNICAL DATA SHEET

	PVC-CAW	PVC-MZ	PVC-D	PVC-TF	PVC-TF
<b>Technical Data</b>					
Density, g/cm <sup>3</sup> ISO 1183	1.42	1.42	1.43	1.43	1.37
Yield Stress, MPa, DIN EN ISO 527	58	52	55	53	72
Elongation at yield, %, DIN EN ISO 527	3	3.5	4	3.5	3
Elongation at break, %, DIN EN ISO 527	15	20	15	20	11
Tensile-E-modulus, MPa DIN EN ISO 527	3000	2800	3000	3000	3200
Impact strength, U/m <sup>2</sup> , DIN EN ISO 179	without break	without break	without break	without break	without break
Notched impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	4	8	4	7	2
Ball indentation hardness, MPs, DIN EN ISO 179	130	110	130	132	140
Shore hardness, O, ISO 868	82	80	82	80	83
Average thermal coefficient of elongation, K-1, DIN 53752	0.8 x 10 <sup>-4</sup>	1 x 10 <sup>-4</sup>	0.8 x 10 <sup>-4</sup>	0.8 x 10 <sup>-4</sup>	0.8 x 10 <sup>-4</sup>
Thermal conductivity, W/m-k, DIN 52612	0.159	0.159	0.159	–	0.159
Fire behaviour, DIN 4102	B1 (to 4) + BS class 1 (to 3)	flame retardant	flame retardant	flame retardant	B1 (to 4) + BS class 1
Dialectric strength, KV/mm, IEC 243-1	39	34	–	–	30
Surface resistance, Ohm, DIN IEC 167	10 <sup>13</sup>	10 <sup>14</sup>	–	–	10 <sup>14</sup>
Temperature range, °C	0 up to +60	-20 up to +60	0 up to +60	0 up to +50	0 up to +50
Chemical resistance	highly resistant to many acids and alkalis				
Physiologically acceptable acc. to BgVv <sup>1</sup> and FDA2 (USA)	no	no	no	no	no
<b>Fabrication</b>					
Welding	yes	yes	yes	yes	yes
Glueing, glassfibre reinforcing	yes	yes	yes	yes	yes
Lacquering, printing	yes	yes	yes	yes	yes
Warm bending	good	good	good	very good	good

### Properties and applications

normal impact strength acc. to ISO 11833-1, especially stabilized for outdoor use, particularly for the use in the container and apparatus building as well as in the machine and terotechnology.	increased impact strength acc. to ISO 11833-1, especially for outdoor use UV-stabilized, particularly for the use in the container and apparatus building as well as in the machine and terotechnology.	increased impact strength acc. to ISO 11833-1, especially for use in the printing sector	increased impact strength acc. to ISO 11833-1, UV- and weather resistant, special type for vacuum forming, applications involving deep draw requirements	light transmittance 88% depending on thickness, particularly for the use in the machine and terotechnology as well as in the advertising industry and in the luminous industry
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