

## TECHNICAL DATASHEET

### Wall insulation Panels 3 and 6 mm



**Material** Extruded Polystyrene foamsheets with flame retardant **Colour:** White

**Fire regulations** B2 according to DIN 4102-1, Classement M1 according to NFP 92-512

Symbol	Insulation Panel G3	Insulation Panel G6	Unit	Test method
--------	---------------------	---------------------	------	-------------

### Dimensional properties

	s	3	6	Unit	Test method
Thickness	Tolerance	Thickness from center to border max. 0,3mm	Thickness from center to border max. 0,6mm	mm	EN 22286
Sheet dimensions (l x w)	Tolerance	1250 x 800 L and W : -2,5/+2,5 mm	1250 x 800 L and W : -2,5/+2,5 mm	mm	-
Foam density	$\rho_s$	40	33	kg/m <sup>3</sup>	EN ISO 845

### Thermal properties

Thermal conductivity (measured)	$\lambda$	0,0297	0,0306	W/mK	DIN 52612 tl.1
Thermal resistance value	R (or 1/ $\lambda$ )	0,101	0,1961	m <sup>2</sup> K/W	
Heat penetration value	b	2,7	2,4	kJ/m <sup>2</sup> h <sup>0,5</sup> K	
Temperature range for applications		-60 / +70	-60 / +70	°C	
Melting temperature		> 160	> 160	°C	
Thermal decomposition		> 250	> 250	°C	
Ignition temperature	with flame influence	350-400	350-400	°C	
	without flame influence	450-500	450-500	°C	

### Mechanical properties

Compression stress at 10% foam deformation	$\sigma_{d10}$	0,10	0,15	MPa	DIN 53421
Tensile stress at break (length direction)	$\sigma_{Rl}$	1,3	0,9	MPa	EN ISO 527-1,2,3
Tensile stress at break (transverse direction)	$\sigma_{Rt}$	0,7	0,9	MPa	EN ISO 527-1,2,3
Elongation at break (length direction)	$\epsilon_{Rl}$	9	10	%	EN ISO 527-1,2,3
Elongation at break (transverse direction)	$\epsilon_{Rt}$	12	12	%	EN ISO 527-1,2,3

### Miscellaneous properties

Water absorption	WA <sub>v</sub>	< 0,1	< 0,1	vol%	DIN 53434
Water vapour permeability resistance factor	$\mu$	650	450	-	DIN 52615 tl.1
Watervapourdiffusions-equivalents of air-layer thickness (= $\mu \times s/1000$ )	S <sub>d</sub>	2,0	2,7	m	DIN 52615 tl.1
Wettability test	$\gamma_c$	> 42	> 42	mN/m	DIN ISO 8296

Note : Only the use of solventfree adhesives are permitted !

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed.