

Depron® Flooring Panels 3 and 6 mm

Material : Extruded Polystyrene foamsheets

Colour : dark-grey

	Symbol	Flooring Panel 3	Flooring Panel 6	Unit	Test method
Dimensional properties					
Thickness	S Tolerance	3 Thickness from center to border max. 0.3mm	6 Thickness from center to border max. 0.6mm	mm	EN 22286
Sheet dimensions (l x w)		1250 x 800	1250 x 800	mm	-
	Tolerance	L and W : -2.5/+2.5 mm	L and W : -2.5/+2.5 mm		
Foam density	ρ_s	40	33	kg/m ³	EN ISO 845

Thermal properties

Thermal conductivity (measured)	λ	0.0297	0.0306	W/mK	DIN 52612 tl.1
Thermal conductivity (for calculations)	λ_R	0.035	0.035	W/mK	
Thermal resistance value	R (or 1/ λ)	0.09	0.17	m ² K/W	
Heat penetration value	b	2.7	2.4	kJ/m ² h ^{0.5} K	
Temperature range for applications		-60 / +70	-60 / +70	°C	
Melting temperature		> 160	> 160	°C	
Thermal decomposition		> 330	> 330	°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	σ_{d10}	0.10	0.15	MPa	DIN 53421
Tensile stress at break (length direction)	σ_{Rl}	1.3	0.9	MPa	EN ISO 527-1,2,3
Tensile stress at break (transverse direction)	σ_{Rt}	0.7	0.9	MPa	EN ISO 527-1,2,3
Elongation at break (length direction)	ϵ_{Rl}	9	10	%	EN ISO 527-1,2,3
Elongation at break (transverse direction)	ϵ_{Rt}	12	12	%	EN ISO 527-1,2,3

Miscellaneous properties

Water absorption	WA _v	< 0.1	< 0.1	vol%	DIN 53434
Water vapour permeability resistance factor	μ	750	525	-	DIN 52615 tl.1
Watervapourdiffusions-equivalents of air-layer thickness (= $\mu \times s/1000$)	S _d	2.3	3.1	m	DIN 52615 tl.1
Impact sound insulation (in combination with Parquet floor)	$\Delta I'_w$	+16	+16	dB	DIN 52210

Note : Only the use of solventfree Adhesives are permitted !

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