

Depron foam

Depron Classic

Document: Technical Data Sheet

Product: Depron - Grey

Parameter	Specification	
General Information:		
Material:	Extruded Polystyrene foam, formed as sheets	
Thickness:	3mm ($\pm 10\%$)	6mm ($\pm 10\%$)
Colour:	Grey	Grey
Size:	1250x800mm (± 4 mm x ± 2 mm)	1250x800mm (± 4 mm x ± 2 mm)
Full box qty:	40 sheets	20 sheets
Density:	40kg/m ³	33kg/m ³
Impact Sound Insulation ($\Delta I'_w$): (in combination with Parquet Floor)	+16dB	+16dB
Thermal Properties		
Thermal Conductivity:	0.0297W/mK	0.0306W/mK
Thermal Resistance:	0.09m ² K/W	0.17m ² K/W
U Value (by Calculation)	9.9W/m ² K	5.1W/m ² K
Application Temperature:	-60°C / +70°C	-60°C / +70°C
Melting Temperature:	>160°C	>160°C
Thermal Decomposition:	>330°C	>330°C
Ignition Temperature (With Flame Influence):	350-400°C	350-400°C
Ignition Temperature (Without Flame Influence):	450-500°C	450-500°C
Mechanical Properties		
Compressive Stress (@ 10% foam deformation):	0.10MPa	0.15MPa
Tensile Stress (@ break, length direction):	1.30MPa	0.90MPa
Tensile Stress (@ break, transverse direction):	0.70MPa	0.90MPa
Elongation (@ break, length direction):	9%	10%
Elongation (@ break, transverse direction):	12%	12%
Miscellaneous Properties:		
Absorption of water:	< 1 Vol%	< 1 Vol%
Water Vapour Permeability Factor:	750	525
Water vapour diffusions-equivalent of air-layer thickness ($=\mu \times s/1000$)	2.3m	3.1m