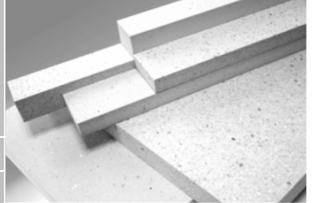


Product Data Sheet

purenit® Functional Materials

Functional Materials on the Basis of Polyurethan- rigid foam (PU)	
Application	compression insulation panel designed for universal application in flat roof, steep roof and facade - thermal-bridge-free connection details - the assembly of components - as carrier material for composite structure
Surface Layer	non-laminated



purenit Functional Materials

purenit® - technical data					
Characteristics	Norm / test Method	Unit	Specifications	Tolerance	
				max	min
Material	high-compressed, thermally-insulating Functional Materials on the Basis of Polyurethan- rigid foam (PU) to DIN EN 13165 / DIN 14308 Biological and building ecology harmless, recyclable, rotproof, mould- and resistant to rot, moisture resistant, dimensionally stable, emission-free to AgBB				
Approval by the building authorities (DIBT)	Z-23.11-1819				
Dimensions					
Lenght	DIN EN 822	mm	2.440		
Wide	DIN EN 822	mm	1.220		
Thicknes	DIN EN 823	mm	10 ⁴⁾ , 15 ⁴⁾ , 20, 25, 30, 35, 40, 45, 50, 60 Further thicknesses and sizes available on request		
Density	DIN EN 1602	kg/m ³	550	+40	-40
Thermal conductivity	EN 12667	W/(m·K)	0,087 ³⁾		
Design value (D) λ	DIN 4108-4	W/(m·K)	0,096		
Thermal conductivity rating			096		
Compressive strength					
compression strain at 10 % compression	DIN EN 826	Mpa	≥ 7,1		
approved longterm pressure < 2% compression		MPa	≥ 1,8		
Bending strength	DIN EN 12089	MPa	4,5 ²⁾		
Elastic modulus (Bending stress)	DIN EN 12089	MPa	30 ²⁾		
Resistance to flexing	DIN EN 12090	MPa	1 - 1,5 ³⁾		
Shearing strength	DIN EN 12090	MPa	1 - 1,5 ³⁾		
Screw extractor resistance	Wood screw 6x60				
	DIN EN 14358	N/mm ²	11,35 ²⁾	+0,5	-0,5
Thickness swelling	DIN EN 68763	%	0,8 ³⁾		
Reaction to fire	non smouldering, non melting, non flaming droplets				
Fire classification / RtF (EU)	DIN EN 13501-1		E / D-s3, d0 ²⁾		
Building material class (D)	DIN 4102-1		B2		
Fire index (CH)	BKZ		5.3		
Temperature stability		°C	-50 up +100, short-therm up to +250°C		
Moisture absorption	DIN ISO 12571	Masse %	≤ 3		
Water absorption	DIN EN 1609	kg/m ²	≤ 0,5		
Water vapour diffusion μ	EN 12086		8		
Linear Coefficient of Expansion	DIN EN 1604	1/K	5·10 ^{-5 2)}		

- 2) orienting test - not a component of permanent external control and factory production control system
 3) Laboratory values
 4) unsupervised thickness range - Deviations of the technical values reserved



Prüfstelle: 0751 FIW München
DIN EN 13501
www.puren.com/download



Verification of Constancy of Performance