puren-PIR NE 75



EU / EN

thermoset high-perform	mance insulating material	
application	for universal use in the insulation and construction area and thermal insulation of technical facilities unlaminated	
assembly	blocks, boards or pre-cut parts dimensions at customer's option upon request dimensional tolerances acc. to puren factory standard	
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puren-PIR NE 75	Technical data PU rigid foam			
Characteristic	Standard/test procedure	Unit	Indicator	
Material	Polyurethane rigid foam (PU) in compliance with EN 13165 and EN 14308, harmless from a biological and building ecology point of view, recyclable, rotproof, resistant to mildew and decay.			
Bulk density	EN 1602	kg/m³	73 - 76	
Thermal conductivity Fresh values 2)		W/(m·K)	0,024 - 0,025	
Compressive strength	measured values ²⁾			
Compressive stress at 10% compression	EN 826	kPa	560 - 650	
E-modulus (compressive stress) 2)		MPa	16,0 - 23,0	
Tensile strength perpendicular to panel plane				
Transverse tensile strength	EN 1607	kPa	600 - 700	
E-modulus (transverse tensile stress) 2		MPa	20,0 - 25,0	
Bending strength 2)	EN 12089	kPa	900 - 1100	
Transverse strength 23	EN 12090 (in compliance with DIN 53427)	kPa	310 - 400	
Shear strength 2)	EN 12090 (in compliance with DIN 53294)	kPa	350 - 450	
Fire behaviour	non-smouldering, non-melting, non-dripping			
Reaction to Fire Class / RtF (EU)	EN 13501-1		E	
Closed cell content 2)	ISO 4590	%	90 - 95	
Temperature resistance		°C	-30 bis +120, short-term to 250 °C	
Moisture absorption ²⁾	EN 12087	Vol%	≤ 3	
Specific heat capacity 1) C	EN 12524	J/(kg·K)	1400	
Water vapour diffusion resistance factor $^{1)}$ μ	EN 12086		40 - 200	
Linear expansion coefficient 1)	EN 1604	1/K	5 - 8 · 10⁻⁵	
	 Literature value, not part of the factory production control and external supervision. Average values calculated on a regular basis under production conditions as part of factory production control. It is ensured that mechanical characteristic values do not fall below their minimum level by more than 10% 			

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State of the art 06/2022 I ME

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