

# Lambdapor®

## Physical properties in construction

PROPERTIES	STANDARD	UNIT	VALUES		
Minimum bulk density	EN 1602	kg/m <sup>3</sup>	15	20	30
Thermal conductivity	EN 12667	mW/(m·K)	see technical information sheet "Lambdapor thermal conductivity"		
Compressive stress at 10% compression	EN 826	kPa	60–90	100–130	170–210
Bending strength	EN 12089	kPa	> 100	> 150	> 350
Tensile strength	EN 1607	kPa	> 100	> 150	> 300
Heat deformation temperature short-term		°C	95	95	95
Dimensional stability 48h; 23 °C; 90% RH	EN 1604	%	≤ 1	≤ 1	≤ 1
Deformation under specific compressive load and temperature	EN 1605	%	–	≤ 5 DLT (1)	≤ 5 DLT (2)
Water vapor diffusion resistance factor	EN 12086	–	20–50	30–70	40–100
Long term water absorption by immersion	EN 12087	Vol %	–	≤ 3	≤ 3
Fire behavior (flame retardent grades)	EN 13501-1 DIN 4102	Euroklasse	E B1	E B1	E B1
Coefficient of linear expansion		1/K	5–7·10 <sup>-5</sup>	5–7·10 <sup>-5</sup>	5–7·10 <sup>-5</sup>
Product standard	EN 13163				
Chemical resistance			Resistant to water, alkaline solutions, and most acids. Sensitive to organic solvents.		
Biological properties			No harmful effects known on humans or on the environment. Long-term resistance to micro-organisms, due to its non-function as a cultivating medium.		

Figures given refer to typical values. For raw material specifications please refer to individual technical data sheets. The values and properties stated for the finished product depend greatly on the successful processing of the raw material. Suitability for specific applications should be tested technically and legally by the processor.

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