



Special properties:

- Low thermal conductivity in combination with high mechanical strength
- Easy workability (screwable, milling, jet cutting)
- Complex geometries producible with shape moulding
- Economical manufacturing @ high density (low cycle times!)

Delivery forms:

- Ready for use pre-expanded beads for EPS shape moulding machines

Property	Standard	Unit	Grade L230	Grade L320	Grade L410	
Material	lambdalit® is a high-density functional material on a polystyrene hard foam basis.					
Bulk density material		kg/m ³	230	320	410	
Thermal conductivity	EN 12667	W/mK	0.048	0.057	0.063	
Specific heat capacity (-20 to 50°C)	ISO 11357-1	J/kgK	840 to 1080			
Reaction to fire classification	EN 13501-1		Euroclass E			
Tensile	E-module	MPa	126	200	298	
	Tensile strength	EN 1607	MPa	1.3	2.1	3.0
	Breaking elongation		%	1.3	1.4	1.2
Compressive stress	at 2% deformation		MPa	0.7	1.0	2.0
	at 5% deformation	EN 826	MPa	2.5	4.4	7.7
	at 10% deformation		MPa	3.2	6.0	10.1
Bending	E-module	MPa	139	212	337	
	Bending strength	EN 12089	MPa	2.8	3.7	5.3
	Breaking elongation		%	1.7	1.5	1.3
Screw extraction force			frame anchor with diameter 7.5mm; screw-in depth 45mm			
	from surface	N	1635	3690	4840	