

Lambdalit[®]

High-strength.
Highly insulating.

sunp•r[®]
EPS and more...

lambdalit®

Still highly insulating.
Stronger than ever.



In the past, you were faced with a choice:

Should producing even a limited number of moulded parts be economically viable?
Should they provide reliable protection against both heat and cold?
If so, then you picked EPS.

Or should they be able to withstand mechanical stress and be secured with screws?
If so, then you would probably opt for injecting moulding.

With lambdalit®, you can have both.

This material has enabled us to add an additional dimension to polymeric foam by making it a high-strength material.



READY TO MOULD

We supply lambdalit® pre-foamed in three different densities for your EPS moulded parts machine. **You do not waste any time** having to foam up and store the raw material, benefiting instead from short cycle times.



STRONG AND EVEN STRONGER

With a **density of up to 410 kg/m³**, lambdalit® is able to closely replicate the ability of injection moulded parts to withstand mechanical loads. This makes it easy to screw in and ensures its longevity.



COMPLEX GEOMETRY

The dense structure of lambdalit® enables complex geometry and precise moulded parts to be created with a high-quality feel. It is also possible for the parts to be further processed by milling, sawing, or water jet cutting.



HIGHLY INSULATIVE.

With its excellent insulating properties and a thermal conductivity of just **48-63 mW/mK**, lambdalit® prevents thermal bridges from forming between building components.

The raw material for highly functional moulded parts

Able to withstand mechanical loads. Can be securely fastened. And with enough insulating power to stop thermal bridges from forming in places where they were once thought unavoidable.



Is lambdalit® giving you ideas?
We will help you find the right way to use it.



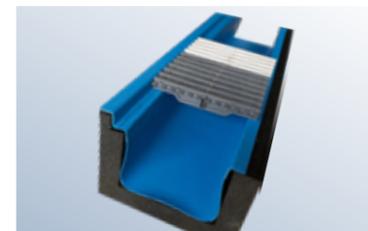
Precise moulded parts

The robust density of lambdalit® makes it possible to create complex, highly functional geometric shapes. Can be easily produced using conventional EPS moulded part machines and mechanically processed in a variety of different ways.



High-strength parts

for being installed using screws without the need for technical aids.



Installation components

for indoors and outdoors, such as modular gutter systems for pool facilities, for quick and easy assembly.



Insulating components

for windows and doors: solutions able to withstand mechanical loads and which prevent any gaps from forming in the building's insulation.

lambdalit®

Adding strength to your product.

Technical data

lambdalit®				
MATERIAL	lambdalit® is a high-density functional material on a polystyrene hard foam basis.			
TYPE		L230	L320	L410
BULK DENSITY	kg/m ³	230	320	410
THERMAL CONDUCTIVITY	mW/mK	48	57	63
SCREW PULL-OUT FORCE (frame anchor with diameter 7.5 mm; screw-in depth 45 mm):	N	1635	3690	4840
TENSILE STRENGTH	MPa	1.3	2.1	3.0
COMPRESSIVE STRENGTH at 2 % deformation	MPa	0.7	1.0	2.0
BENDING STRENGTH	MPa	2.8	3.7	5.3
REACTION TO FIRE CLASSIFICATION	Euroclass E as per EN 13501-1			
sunpor products are 100% recyclable.		100% RECYCLABLE 		



SUNPOR Kunststoff GmbH
Tiroler Straße 14
3105 St. Pölten
Austria

Phone: +43 (0) 2742 291 - 0
E-Mail: produktmanagement@sunpor.at
Web: www.sunpor.at

A company of O.N. Sunde AS - Oslo, Norway

