

Microlen B1 is a closed cell polyethylene foam of very high quality. Microlen B1 is manufactured in crosslinked form under pressure and at high temperatures. A very fine, regular cell pattern is produced. Microlen B1 is highly elastic, water-repellent and can be used in many fields, e. g. as profile fillers for thermal decoupling between wall and roof. We can provide special form parts for your application.

Microlen B1 is flame retardant according to DINN 4102 and corresponds to building material classification B1. Therefore, in many areas where to the fire behaviour of the used materials is attached great importance, shaped parts of Microlen B1 are applicable.

Due to our versatile possibilities of processing, we are able to apply Microlen PE 10 in any form desired. The product can be covered and coated thanks to its special properties.

Technical Data:

Density	33 ± 4 kg / m ³	according to ISO 845
Colours	anthracite	
Cell size	≤ 0.36 mm	internal
Elongation at break	72 %	according to ISO 1926
Tensile strength	160 kPa	according to ISO 1926
Compression strength 10 % compression	36 kPa	according to ISO 844
25 % compression	51 kPa	
50 % compression	106 kPa	
Compression set at 22 h, 25 %		
30 min. recovery	12 %	according to ISO 1856-B
24 h recovery	5 %	
Shore hardness 00	52	internal
Max. water absorption after 28 days	1 Vol.-%	DIN 53428
Max. Temperature stability	+ 100 °C	internal
Temperature range of use	- 40 °C to + 80 °C	standard data PE
Flammability 10 mm thickness	0 mm / min.	ISO 3795
Reaction to fire	class M1	UNE 23727 NF P 92507
Fire classification	b-s3, d0	ISO 13501 – 1: 2007
Fire behaviour	building material class B 1	DIN 4102
Thermal conductivity	$\lambda_{10} = 0.036 \text{ W}/(\text{m}\cdot\text{K})$	ISO 2581

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This Technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2025. Please request the latest version after Jan. 01, 2026.

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