Technical Information PE Grey





Product Verification

Sustainability

according to	BNB BN 2015
according to	BREEAM International New Construction 2016
according to	D DGNB NBV 2015
according to	o DGNB Gebäude Neubau 2018
according to	LEED Building Design and Construction V3 (2009)
according to	LEED Building Design and Construction V4 (2015)

PE Grey is a polyethylene foamed material with a reliably closed-cellular structure, developed and manufactured as expanded polyethylene round profile. The good characteristics of expanded polyethylene, e. g. high elasticity and flexibility in combination with its cylindrical shape and the closed skin, confer PE Grey with the properties required for its design use and applications in expansion joints, as depth limiting, as a perfect support for sealants. Therefore PE Grey is the ideal material for using as back filling in joint sealing between the same or different building materials.

PE Grey is a closed cell back filling material for joint sealing. PE Grey is not water sucking when processed competent and rotproof by humidity.

So PE Grey fulfils the technical requirements of back filling materials for joint sealing to DIN 18540 and to NF DTU 44.1 as well as the requirements of RAL-quality association for back filling materials for sealing of window and outer door connecting joints with joint sealing materials and the requirements for back filling materials.

Application:

- as back filling material in joint sealing in general
- in glazing in connecting joints to windows and doors
- exterior joints in facades, interior joints in kitchen and bathroom, joints in prefabricated panels, joints in pavement
- water tight buildings, water tight joints in dam walls, water tight joints in water reservoirs in general

Forms:

PE Grey is produced in a standard round profile of 6 to 50 mm thickness.

In diameters 15, 20, 25, and 30 mm, PE Grey round profiles are also available with an inside hole:

Article		External diameter	Diameter of the inside
		in mm	hole in mm
F	PE Grey round profile 15 mm with inside hole	15 ± 1	6 ± 2
F	PE Grey round profile 20 mm with inside hole	20 ± 1	6 ± 2
F	PE Grey round profile 25 mm with inside hole	25 ± 1	9 ± 3
F	PE Grey round profile 30 mm with inside hole	$30 \pm 1,5$	9 ± 3

Special profiles produced from technical drawings can also be made, e.g. hollow chamber profiles and foam tubing.

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Technical data:

Chemical basis foamed polyethylene

Standard colour grey

Temperature stability up to + 70 °C ac. to NF DTU 44.1 P1-2

Building material classification B 2 ac. to DIN 4102, part 1 in combination with SB-PUR 15

Recuperation after compression excellent Durability excellent

Article	Diameter	Raw Density
	in mm	in kg / m³
PE Grey round profile 6 mm	6 ± 1	23 ± 5
PE Grey round profile 8 mm	8 ± 1	23 ± 5
PE Grey round profile 10 mm	10 ± 1	23 ± 5
PE Grey round profile 13 mm	13 ± 1	23 ± 5
PE Grey round profile 15 mm	15 ± 1	23 ± 5
PE Grey round profile 20 mm	20 ± 1	23 ± 5
PE Grey round profile 25 mm	25 ± 1	23 ± 5
PE Grey round profile 30 mm	$30 \pm 1,5$	23 ± 5
PE Grey round profile 40 mm	40 ± 2	30 ± 5
PE Grey round profile 50 mm	50 ± 2	30 ± 5

Handling information:

The shaping of expansion joints in the construction must be carried out in accordance with DIN 18 540. PE Grey meets these DIN standards. As a back filling material, the product must have characteristics that avoid *three-sided bonding*, do not impair the sealing material and do not absorb water.

When inserting the profile into joint shaping, it is necessary that the profile is by about 25 % compressed and then pushed with a blunt object without sharp edges until it is placed in the required depth. The product shall not be in contact with any sharp objects as the surface could otherwise be damaged.

Once inserted PE Grey presents a concave shape for simple placement of the corresponding joint sealing material.

Fire behavior:

When the following regulations of use are observed, our PE Grey meets the requirements stipulated for a general construction supervision test which is required for the construction class B2 according to DIN 4102, part 1.

Use regulation:

1. Tested joint width 5 mm up to 40 mm Tested diameter of material: 6 mm up to 50 mm

- The joint sealing strip must be used between solid mineral construction materials
- 3. Application in combination with our PU joint sealant SB-PUR 15

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, 2024. Please request the latest version after Jan. 01, 2025.

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