

## **PROOFMATE E**

### **Properties:**

*PROOFMATE E* elastic compression profiles are round profiles with various diameters based on closed-cell EPDM foam (Ethylene-Propylene-Diene-Monomer), which are available in two different qualities. A distinction is made between a strongly foamed, soft quality and a slightly foamed, significantly harder quality.

The harder quality comply with material requirements for pipe joint seals used in water and drainage applications according to EN 681, Part 3 (Cellular materials of vulcanized rubber).

*PROOFMATE E* is used as joint sealing profile and for renovation of expansion joints in combination with *VARIOTITE/POLINIT*.

Due to their top-quality material basis *PROOFMATE E* round profiles can also be used in areas that are chemically contaminated or exposed to UV radiation.

### **Technical data:**

#### Substance data:

##### *PROOFMATE E* soft

Colour	black	
Material basis	EPDM	
Density	approx. 0.6 g/cm <sup>3</sup>	DIN EN ISO 845
Shore A hardness	30 ± 5	DIN ISO 7619-1
Tensile strength	≥ 2.0 N/mm <sup>2</sup>	DIN EN ISO 527
Elongation at break	≥ 400 %	DIN EN ISO 527
Temperature resistance	-30 to +100°C	
Diameter	16, 20, 25, 30 mm	

#### Ageing 7d / 70°C rel. change:

Tensile strength	± 15 %	DIN 53508
Elongation at break	± 15 %	

#### Ozone resistance:

0.5 ppm/48 h/RT	0 cracking	DIN ISO 1431-1
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#### Compression set

72 h at RT	≤ 25 %	DIN ISO 815
24 h at 70°C	≤ 45 %	

#### Substance data:

##### *PROOFMATE E* hard

Colour	black	
Material basis	EPDM	
Density	approx. 0.8 g/cm <sup>3</sup>	DIN EN ISO 845
Shore A hardness	35 ± 5	DIN ISO 7619-1
Tensile strength	≥ 3.0 N/mm <sup>2</sup>	DIN EN ISO 527
Elongation at break	≥ 350 %	DIN EN ISO 527
Temperature resistance	-40 to +120°C	
Diameter	20, 25, 30, 40, 45, 60 mm	

#### Ageing 7d / 70°C rel. change:

Tensile strength	± 15 %	DIN 53508
Elongation at break	± 15 %	

Ozone resistance:  
0.5 ppm/48 h/RT 0 cracking DIN ISO 1431-1

Compression set:  
72 h at RT  $\leq 15\%$  DIN ISO 815  
24 h at 70°C  $\leq 20\%$

Technical data were determined on sheets.

**Processing:**

*PROOFMATE E* elastic compression profiles are driven into the joint by means of a hammer and wooden or plastic wedges or mechanically by a pneumatic chisel hammer.

Due to its pore-structure the profile can be easily placed or pressed into the corner areas.

A mitre cut should not be made, because bonding with *FIX-O-FLEX* is difficult due to the pore-structure in the cutting range. It could lead to a weakening of sealing.

Remember to choose a profile diameter that will allow sufficient contact pressure with the material when you drive in the profile.

*PROOFMATE E* can also be reinforced by bonding it with *FIX-O-FLEX*. In this case bonding is possible without problems, because the smooth external surface of the profile can be easily bonded with *FIX-O-FLEX*.

Please see the relevant Technical Data Sheets for more information about how to use *PROOFMATE E* in combination with *VARIOTITE/POLINIT* for the renovation of expansion joints.

**Safety information:**

No special measures required

**Packaging:**

Rolls or bundles in carton or on pallets (depending on profile type)

see price list

**Storage:**

Shelf life at least 24 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

**Disposal:***Recommendation:*

Small quantities of product residues can be disposed of as normal domestic waste. Dispose of bigger quantities must be effected in accordance with the corresponding local regulations.

**Test certificates:**

Verification of sound insulation of joint filler - *PROOFMATE E* compression profile; ift Rosenheim 2010

*PROOFMATE E 30/40* - Tightness test of a compression profile with round diameter based on EPDM foam; MFPA Leipzig 2011

*PROOFMATE E 30/25* - Tightness test of a compression profile with round diameter based on EPDM foam; MFPA Leipzig 2011

Determination of compressive stress (recovery) at different compressions and compression modulus of a joint sealing profile; MPA NRW Dortmund 2013

**Legal notice:**

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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**TPH.**  
*Waterproofing Systems*