

TECHNICAL DATA SHEET

KISO 458 BUTYL TAPE

Date: 01/01/2023

Version 1

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Product

KISO 458 BUTYL Tape is a rubber based extruded and self-adhesive butyl sealing strip.

Key Features

- Good adhesion to flashing tapes, various tools and film surfaces
- Excellent UV resistance
- No fumes, solvent free and free from harmful substances
- For curing temperatures up to 180 °C during 3 hrs test
- Water repellent and airtight
- Excellent release from composite tooling
- Non hardening, remains flexible throughout service life

Areas of application

- All-round general-purpose applications within building industry
- For use in the casting of composite materials for wind turbine blades and for composite materials using autoclave
- Excellent for bag to tool applications
- Air and water sealing for compression joints and seams
- Sealing of duct flanges in HVAC systems

Technical Features

| | Unit | Nominal Value | Test Method |
|---------------------------|-------------------|---------------|---------------------|
| Compression 50% | kN/m ² | 125 | KISO 5 |
| Peel Adhesion | N/cm | >12 | KISO 13 |
| Strain Peak Force, Fmax | kN/m ² | 45 | KISO 5 |
| Density | g/cm ³ | 1.60 | DS/ISO 2781A |
| Needle Penetration (23°C) | dmm | 70 | ASTM D 5 (adjusted) |
| Service Temperature Range | °C | -30 - +180 | |

KISO - KISO Test Method

Standard Dimensions and Packaging

KISO 458 BUTYL Tape is supplied as a preformed strip on a siliconized release paper or foil. The product is offered in various dimensions. The number of meters per roll and rolls per carton is determined by product dimensions and customer requirement.

Available colours: Black, grey (other colours on request).

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Application

Application temperature: > 5°C (15°C - 25°C recommended)

Surface preparation: Mounting surfaces MUST be clean, dry and free from dust, grease and loose materials. Propan-2-ol is recommended for cleaning of smooth surfaces. Make sure the surface is allowed to dry prior to application of the sealant strip.

Application: Apply by hand directly from the reel. Press firmly against the mould surface, remove the protective paper and place the vacuum film on top and while pressing firmly on the vacuum film until air tightness is achieved.

Shelf life: Max. 2 years from date of manufacture under normal storage conditions, i.e. in a dry place at normal room temperature.

Storage: Do not store close to heat sources, as the protective paper can be difficult to remove while the product is hot. Must be stored flat in original packaging.

Service life: Estimated 30 years*.

Disposal: The product is not biodegradable, do not disperse it in the environment after use.

*Depending on application

Tolerances

| Rectangular Profiles: | Width (mm) | Unit | Tolerance (+/-)* |
|-----------------------|------------|------|------------------|
| | - 2.5 | mm | 0.35 |
| | 2.6 - 4.0 | mm | 0.40 |
| | 4.1 - 6.3 | mm | 0.50 |
| | 6.4 - 10 | mm | 0.70 |
| | 11 - 16 | mm | 0.80 |
| | 17 - 25 | mm | 1.00 |
| | 26 - 150 | mm | 2.00 |

*DIN 7715 T3 class E2

Thickness: +/- 10%*

*DIN 7715 T3 class E1 or better

Round Profiles: All Diameters: Calculated weight +/- 10%

Length (All Profiles): +/- 1.5%

Test

KISO can neither ascertain nor warrant that the Product is suitable for the specific purpose, interacts with the substrate or other material in the construction, construction method used or application chosen by the Purchaser in a way and with a result desired or anticipated by the Purchaser. Therefore, the Purchaser shall conduct and perform any such tests, studies and analysis of the Product to ascertain whether the Product is suitable for the Purchaser's production process and end products and / or application. KISO merely and exclusively warrants that the Products comply with the sections Technical Features, Standard Dimensions and Packaging, Application and Tolerances stated in this Specification. Characteristics of the Product that are not specified in this Specification are not warranted.

More information

For further information, please contact our Sales Team or send us an e-mail at kiso@kiso.dk

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