

# Datasheet for Redusoft DI 150 FR / EN45545-2

Soft elastic seal for rail vehicles with EN45545-2 certificate



## **Product information**

The Redusoft DI 150 FR sealing tape fulfills the requirements of European standard EN45545-2 in category HL 3 for R22/R23. It is a permanently elastic, fine-pored, impregnated flexible polyurethane foam.

## Function / areas of application

Redusoft DI 150 FR fulfills high fire protection requirements and was specially developed for the rail vehicle, automotive and electrical industries. The gasket is primarily used for heat and sound insulation, vibration damping and protection against dust, moisture and draughts.

## **Technical data Fire resistance\***

Specifications	EN 45545-2	R22/R23 - HL3
	EN ISO 4589-2	LOI > 32 %
	EN ISO 5659-1	Ds max < 150
	NF X70-100-1 & 2	CITG < 0.75
	TB/T 3237:2010	passed
	GB/T2406.2:2009	> 32 %
	LITC ECA 3	Cl A

UIC 564-2 Class A GB/T 8323.2-2008 passed

EN 13501-2 corresponds to class E DIN 75200  $\leq$  100 mm / min. FMVSS 302 SE/NBR

\* For information on the tested thicknesses, see the respective fire protection certificate.



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General technical data <sup>1/3</sup>						
Impregnation	modified acrylate dispersion	on				
Material colour	black					
Raw density	150 kg/m³ +/- 10 %	EN ISO 845				
Temperature resistance	- 40 °C to +100 °C, briefly up to 130 °C					
Elongation at break	> 150 %	EN ISO 1798				
Tensile strength	> 100 kPa	DIN EN ISO 1798				
Compression hardness at 40%	5 kPa +/- 15 %	EN ISO 3386				
Delivery form	punched parts, blanks, sheets with or without adhesive.					
Storability	12 months (at temperatures from +5 °C to +35 °C, dry, dust-free, without exposure to direct sunlight or heat sources).					
Environment and disposal	residues can be disposed of with household waste. Local regulations must be observed.					

<sup>&</sup>lt;sup>1</sup>The technical data may change with the degree of compression.

## **Application**

#### Tools:

For installation of the tapes get a measuring tape, knife / scissors and a spatula.

#### Surface treatment of the joints:

Dirt, oil, fat, old sealing material and mortar residues have to be removed from the  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

joint flanks.

### Determination of the dimensions of the tape:

Measure the window construction depth and the joint width (including tolerances and movement of the joint) and choose the correct dimension of the tape. In order to guarantee the required sealing effect of the installed tape, the prescribed areas of application (joint widths) of the individual tape dimensions may not be exceeded. The joint width has to be according to the dimensions of the tape (see table and price list). For tight joints, it is advantageous to moisten the tape.

# Preparation of the tape (the side marked in colour showing to the middle of the room):

By cropping the tape please note the addition of at least 1 or 2 cm per meter. Cut off the piece of the beginning and the end of the roll. Remove the cover of the adhesive film and stick the pre-compressed tape on top of the clean and dry window frame.

Start at the side of the frame with sticking up the tape on the bottom and then work upwards. Push the adhesive side tight against the component. It should be ensured that the tape is not elongated. As the tape changes its length after some time to the original length, light upsetting is advisable otherwise leaks could arise. Press the tape at the upper frame against the horizontally bonded tape and stick out on each side along the tape the maximum of the joint width. The tape must not be applicated in one piece around the frame. For safety reasons the tape must be laid offset at least 2 mm on both sides inwards from the leading edge of the joint.

## Abutting points of the tape:

The individual tape lengths may be extended during the application by compressing the tailored tapes against each other. Joints or imperfections can be compensated with a suitable sealant.



Dimension (mm)	Original tape height (mm)	Tape width (mm)	Roll length (m)	Packaging unit (m)
10x10	10	10	10	48
10x15	10	15	10	32
10x20	10	20	10	24
15x10	15	10	10	48
15x15	15	15	10	32
15x20	15	20	10	24
15x30	15	30	10	16
19x15	19	15	10	32
19x20	19	20	10	24
19x30	19	30	10	16
25x20	25	20	6	24
25x30	25	30	6	16
Dimension	Height	Width	Stripes	Packaging unit
(mm)	(mm)	(mm)	(m)	(m)
30x30	30	30	2	128
30x40	30	40	2	96
40x40	40	40	2	72

#### **Expanding behaviour:**

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40

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50

50

40x50

40x60

50x40

50x50

50x60

Installation is only possible with delayed resetting. The rise behaviour of the tape depends on the joint and ambient temperature. At higher temperatures, the material resets relatively quickly (the component must be installed quickly). Therefore, storage at  $> 20^{\circ}\text{C}$  over a longer period of time should be avoided (do not store the tape directly in the sun).

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60

40

50

60

2

2

2

2

2

60

64

48

40

32

At lower temperatures, we recommend storing the material at room temperature of approx. 20°C for at least 24 hours before use. The expansion of the installed tapes can be accelerated by heating with a heat gun (in swivelling movements).

### Notes:

<sup>1</sup>The functional efficiency of the belt can only be achieved if the belt has been installed or used in accordance with our applicable processing instructions and has not been exposed to any influences that we could not foresee.

Decomposition due to external influences is not covered by the warranty. Decisive for the recognition of a possible complaint is the professional processing according to the mentioned standards as well as the compliance with the processing instructions. Standing water or permanent wetting with water cannot be permanently compensated by the product and is not a reason for complaint. All assurances refer to the use of the product in Central European climatic conditions.

Read the manufacturer's instructions before installation. If the instructions are not available, request them from the manufacturer or seller.

Further important product information / processing instructions can be found in the test instructions and processing guidelines.

<sup>2</sup>Component movements and temperature-dependent changes in length must be added to the existing joint widths. Dimensional tolerance according to DIN 7715 P3.

<sup>3</sup>Warranty according to manufacturer's conditions.



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