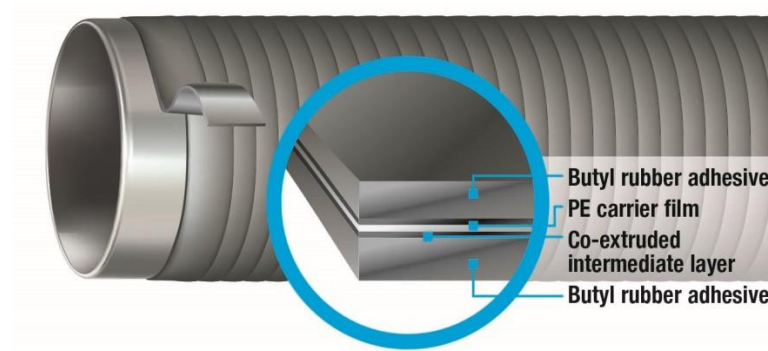


DENSOLEN[®]-E, DENSOLEN[®]-N



Product information



Special advantages:

- Can be processed in a cold condition, no flame required.
- High flexibility and adaptability.
- Fast self-amalgamation.
- Electrically highly insulating.
- Oxygen and water impermeable.
- Used in pipeline and plant construction, in chassis and vehicle manufacturing as well as the electrical and telecommunication industry.

Self-amalgamating plastic tapes on the basis of butyl rubber for the corrosion prevention and the electrical insulation of pipes and metal parts.

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

Description

DENSOLEN[®]-E and **DENSOLEN[®]-N** are plastic tapes that are processed cold. They are butyl rubber based for permanent corrosion prevention encasements and electrical insulations. The **DENSOLEN[®]-E/-N** tapes grow together in the overlapping area to a hose-type encasement, which is basically impermeable against water and oxygen and it is electrically highly insulating.

All **DENSOLEN[®]-E/-N** tapes include a polyethylene carrier film, which prevents an overstretching of the tapes during wrapping. Due to its flexibility and adaptability, the **DENSOLEN[®]-E/-N** tapes adapt especially well to the substrate structure.

Based on these properties, the **DENSOLEN[®]-E/-N** tapes are used in many application areas:

- Corrosion prevention encasement of metallic pipelines at welding connections, containers and systems.
- Corrosion prevention coating for press fitting systems.
- Galvanic isolation at the connection of metals to prevent contact corrosion.
- Sealing of rivet and screw connections in chassis and vehicle manufacture.
- Insulation and sealing of sleeve necks for cable glands in cable sleeves.
- Cable glands at boxes, housings and cabinets.
- Roof inserts of electrical and phone cables and antenna masts.

The colors of the **DENSOLEN[®]-E/-N** tapes are different (gray or black) and they are available in several tape thicknesses (overview see table overleaf). The use of **DENSOLEN[®]-HT Primer** is recommended to improve the adhesive strength to the surface. **DENSOLEN[®]-E/-N** tapes are processed with a slight tension wrapped in spirals. The overlap for this application is normally 50% of the tape width. In addition, **DENSOLEN[®]-E/-N** tapes can be equipped with an outer wrapping made from a two-layer tape, e.g. **DENSOLEN[®]-PE3**, **DENSOLEN[®]-PE5** or **DENSOLEN[®]-R20 HT**. The outer resistant polyethylene carrier film of these tapes results in a significantly increased mechanical strength of the coating.

Typical product properties

Product name	Unit	Tape thickness	Color
DENSOLEN®-N8	mm	0.8	Gray
DENSOLEN®-N10	mm	1.0	Gray
DENSOLEN®-N12	mm	1.2	Gray
DENSOLEN®-N15	mm	1.5	Gray
DENSOLEN®-E10	mm	1.0	Black
DENSOLEN®-E12	mm	1.2	Black
DENSOLEN®-E15	mm	1.5	Black

Property	Unit	Typical value		Test method
		DENSOLEN®-N10	DENSOLEN®-E10	
Tape thickness	mm	≥ 1.0	≥ 1.0	ISO 4591
Thick carrier film	µm	70	25	ISO 4591
Elongation at break	%	500	200	DIN 30672
Tensile strength	N / mm ²	3	0,75	DIN 53515
Permeability for oxygen (+23°C (+73°F), single layer)	g / m ² ·24h·bar	≤0.0001	≤0.0001	DIN 53536
Dielectric strength	kV / mm	40	40	DIN 53481
Volume resistivity	Ohm · cm	≥10 ¹⁵	≥10 ¹⁵	DIN 53482
Operating temperature	°C (°F)	-40 bis +50 (-40 bis +122)		-
Design temperature	°C (°F)	-50 bis +70 (-58 bis +158)		-

Ordering information and packaging

	Roll length (m)	Roll width (mm)	Box content			Weight per box app. (kg)
			Number of rolls	Total tape length (m)	Total tape area (m ²)	
DENSOLEN®-N8	15	30	18	270	8.1	9
		50	12	180	9.0	9.5
		100	6	90	9.0	9.5
DENSOLEN®-N10/-E10	12.5	30	18	225	6.8	9
		50	12	150	7.5	10
		100	6	75	7.5	10
DENSOLEN®-N12/-E12	10	50	12	120	6.0	10
		75	12	120	9.0	15
		100	6	60	6.0	10
DENSOLEN®-N15	7.5	30	18	135	4.1	8.5
		50	12	90	4.5	9.2
		100	6	45	4.5	9.2
DENSOLEN®-E15	5	30	12	60	1.8	4.0
		50	8	40	2.0	4.5
		100	4	20	2.0	4.5

Storage

When stored in its original, unopened packaging, DENSOLEN®-E/-N tapes can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

Store in a dry location and do not rest anything against the front of the product.

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