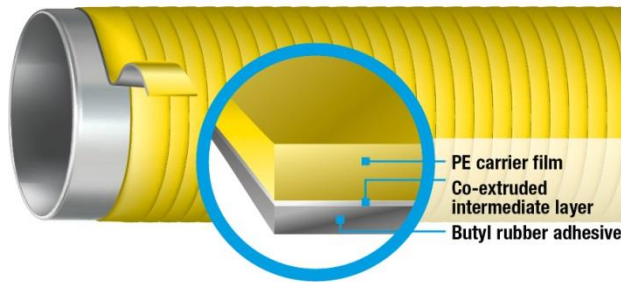


# DENSOLEN®-090

## Product information



### Special advantages:



- ✓ Genuine co-extruded two-layer tape.
- ✓ Highly adaptable carrier film.
- ✓ Highly elastic.
- ✓ Component of GRTgaz (FR) approved DENSOLEN® systems.
- ✓ DENSOLEN®-AS40 Plus/-090 satisfies stress class B 50 and DENSOLEN®-E10/-090 satisfies stress class B 30 of the EN 12068 standard.
- ✓ Prestressed tape in systems certified by ÖVGW (AT), DENSOLEN®-System 2, 3 and 4.

## Co-extruded 2-layer plastic tape, made from a stabilized polyethylene carrier film with a butyl rubber adhesive on one side.

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®-090** is a genuine co-extruded 2-layer plastic tape, made from a stabilized yellow polyethylene carrier material and with a butyl rubber coating on one side. The tape thickness is  $\geq 0.4$  mm.

DENSOLEN®-090 can be applied cold and is used as a mechanical protective tape for corrosion protection wrapping applied with **DENSOLEN®** 3-ply tapes. For such applications, the inner butyl rubber coating bonds tightly to the outer layer of the inner tape to form a permanent wrap.

DENSOLEN®-090 is the outer tape component in the tape systems **DENSOLEN®-S10/-090** and **DENSOLEN®-E10/-090**. These tape systems are ideally suited for use in the corrosion protection of metal pipes and molded parts with complex geometries, such as T-fittings and point of entry armatures.

Thanks to its superior flexibility, DENSOLEN®-090 is used as a middle tape in the **DENSOLEN®** special systems **DENSOLEN® System 1 to 4**, and is therefore a component in multiple systems

certified by ÖVGW (AT) for a C 50 stress class.

Its superior flexibility and elasticity also makes DENSOLEN®-090 an ideal choice for pipes with small nominal pipe sizes, even in cramped site conditions.

DENSOLEN®-090 is compatible with factory coatings made from PE, PP, FBE, PU, CTE and bitumen.

DENSOLEN®-090 can be processed efficiently with **DENSOMAT®** wrapping machines.

## Typical product properties

Property	Unit	Typical value	Test method
Carrier film color	-	Yellow	-
Butyl adhesive color (inner)	-	Black	-
Butyl adhesive color (outer)	-	-	-
Tape thickness	mm	≥ 0.4	ISO 4591 ASTM D1000
Carrier film thickness (approx.)	mm	≥ 0.26	
Inner adhesive layer thickness (approx.)	mm	≥ 0.14	
Outer adhesive layer thickness (approx.)	mm	-	
Elongation at break	%	≥ 400	DIN 30672
Tensile strength	+23 °C (+73 °F) N/cm	≥ 35	EN 12068
Water absorption	+23 °C (+73°F) 1 day/30 days %	≤ 0.1 / ≤ 0.4	DIN 53495 ASTM D570
Operating temperature	°C (°F)	-40 to +50 (-40 to +122)	-

**DENSOLEN**® tapes can easily be applied by hand. Application is even more efficient with original **DENSOMAT**® wrapping machines. For **DENSOLEN**® tapes with widths >50 mm, we recommend the deployment of a **DENSOMAT**® wrapping machine, to ensure that the final workmanship is of a superior and uniform quality.

## Ordering information and packaging

	Core diameter (mm)	Roll length (m)	Roll width (mm)	Box contents			Weight per box (kg) (approx.)
				Number of rolls	Total tape length (m)	Tape area (m²)	
<b>DENSOLEN</b> ®-090	41	15	30	18	270	8.1	4
			50	12	180	9	5
			100	6	90	9	5
	41	30	30	18	540	16.2	9
			50	12	360	18	10
			100	6	180	18	10

Other dimensions available on request.

## Storage

When stored in its original, unopened packaging, **DENSOLEN**®-090 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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