



Special advantages:

- ✓ High resilience and durability.
- ✓ High electrical resistance.
- ✓ Prevents prestressed funnel.
- ✓ Thermally and chemically durable.
- ✓ Qualified for armatures foundations, for the insulation of cable crossings and as root protection.

Polyurethane Insulation Plate for the electrical insulation of pipelines and armatures.

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

The **DENSOLID®-IPL** with its high electrical insulation properties, guarantees a reliable electrical separation between cathodic protected pipelines and foundations made from concrete. Voltage drops are prevented by this

insulation. A high mechanical resilience as well as a low creep and therefore a high durability are provided based on the cross-linked molecule structure of the polyurethane. In addition, DENSOLID®-IPL features a very good thermal and

chemical durability. Based on its flexibility, the insulation plate can be used for the insulation of valve foundations as well as for the insulation of pipelines at cable crossings as well as root protection mat.

Processing

The insulation plate will be inserted between the concrete foundation and the valve as described for example in guideline GL 263-501 of the Open Grid Europe, RWE Thyssengas and Verbundgas.

A good adhesive connection of the **DENSOLID®-IPL** to the steel surface is achieved with the polyurethane

coating material **DENSOLID®-FK2 C**. For this purpose, the insulation plate should be slightly roughened and should be cleaned of all loose parts. In addition, the casting of sliding feet foundations with **TOK®-Melt**, a pouring compound made from polymer modified bitumen, or **DENSOLASTIC®-SU**, a polyurethane

pouring compound, has proven to be successful, which provides an additional protection and insulation of the foundation.

We recommend the pouring with the permanent plastic mastic **DENSO®-KS** for the corrosion prevention of the valve rods.

Typical product properties

Property	Unit	Typical value	Test method
Tensile strength	N / mm ²	>25	DIN EN ISO 527-3
Elongation at break	%	>600	DIN EN ISO 527-3
Hardness	Shore D	40	DIN ISO 7619-1
Dielectric strength	kV	>35	-
Volume resistivity	Ω m	3 x 10 ¹¹	DIN IEC 93

Ordering information and form of delivery

DENSOLID®-IPL

Color	Width (m)	Length (m)	Thickness (mm)	Weight (Kg)
Black	1	1	5	5

Additional dimensions available on request.

Storage conditions

When stored in its original, unopened packaging, **DENSOLID®-IPL** can be stored for at least 24 months after the manufacturing date.

Storage temperature: +15°C (+59°F) to +30°C (+86°F).

The product must be stored in a location that is protected from frost.

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