

Technical Data Sheet

**EKAFOL Insulation Jacketing Isogenopak® - white**

Material:	rigid PVC (Polyvinylchlorid)
Roll width:	1200 mm
Roll length:	25 m
Circumference as cutted, ready jacketing:	160-810 mm and according to order
Foil thickness:	0.350 mm
Moisture resistance $\mu$ :	app. 60'000 (DIN 52615)
Tensile strength :	> 35 N/mm <sup>2</sup> (DIN EN ISO 527)
Impact strength:	>= 400 kJ/m <sup>2</sup> (DIN EN ISO 8256)
Elasticity modulus:	ca. 1800 N/mm <sup>2</sup> (DIN EN ISO 527)
Temperature range:	-20 to +50 °C
Emissivity:	97% (ISO 10292)
Weight:	about 500 g/m <sup>2</sup> (with 0,35mm thickness)
Colour:	Isogenopak® white similarly RAL 9010 / 9016
Other qualities:	Not UV-resistant

**Chemical resistance**

Following the added papers of DIN 8061, 02/1984, Isogenopak® is resistant against chemical substances as follows:

Material	Temp. C°	Resistance	Material	Temp. C°	Resistance
Acetaldehyde up to 40 %, queous	20	+	Sodium chloride	40	++
Acetone, aqueous	20	-	Carbon monoxide, 100 %, gaseous	60	++
Aldehyde, 100 %	20	-	Methyl alcohol, every conc.	40	++
Aluminium salts	40	++	Mineral oils	60	++
Ammonia, aqueous	40	++	Sodium hydroxide, 60 %, aqueous	60	++
Ammonia, gaseous	60	++	Mercury	60	++
Benzene (pure aliphatic hydrocarbons)	60	++	Nitric acid, diluted, aqueous		
Benzene-benzole mix (fuel)	20	-	30-50%	50	++
Chlorine, gaseous (> 1 %), wet	20	+	50-65%	20	++
Chlorine, gaseous, dry	20	+	98%	20	-
Hydrogen chloride, dry	60	++	Hydrochlorid acid, aqueous up to 30 %	60	++
Iron salts, diluted solutions	40	++	Oxygen, gaseous	60	++
Iron salts, saturated solutions	60	++	Sulphur dioxide, gaseous (wet)	40	++
Acetic acid, 25-60 %	60	++	Sulphur dioxide, gaseous (dry)	60	++
Ethyl alcohol, solutions	40	++	Sulphoric acid		
Ethyl alcohol, 96 %	60	+	40-80%	60	++
Glycerine	60	++	80-90%	40	++
Potassium hydroxide solution, 50 %	60	++	96%	20	++
Potassiferous salts	40	++	96%, fuming	60	+
			Carbon tetrachloride	20	+
			Hydrogen, gaseous	60	++

Key: - not resistant  
 + resistant under certain conditions  
 ++ resistant



**EKAFOL** is a special rigid PVC film for cladding insulated pipes.

A dry, clean fitting is guaranteed. The inherent curl makes it the ideal material for quick and easy covering.

**EKAFOL** is self-extinguishing and has considerable resistance to acids, alkalis, salts, oil, petrol, aliphatic hydrocarbons and corrosive atmospheres. In addition, the material cannot corrode and is virtually impermeable to water vapour. It is unaffected by fresh and salt water and is impervious to gases, grease and oil. The chemical characteristics of **EKAFOL** are matched by equally good physical characteristics:

- high longitudinal and lateral tear resistance,
- high elasticity and shock resistance.

**EKAFOL** is very light:

one square meter, 0.350 mm thick weighs only about 500 g. This low weight and ease of stacking facilitates transportation and storage.

Physiologically harmless, **EKAFOL** has a smooth surface which guarantees a long-lasting elegant appearance. It requires no care or maintenance and also has very good anti-static characteristics. The material has considerable resistance to temperature changes and is stable from  $-20\text{ °C}$  up to  $+50\text{ °C}$  in indoor use. The thermal conductivity of **EKAFOL** is  $0.16\text{ W/mK}$ .

Tips:

Color divergences between foil, form parts and adhesive tape are possible.

The information in this data sheet is based on our topical knowledge, experiences, as well as information of the manufacturer. The sheet does not contain a bill of sale or an assurance. No representation of warranty is made for specific product properties or concrete applications. All applicable current standards must be observed and followed. This document will supersede all previous data sheets.

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