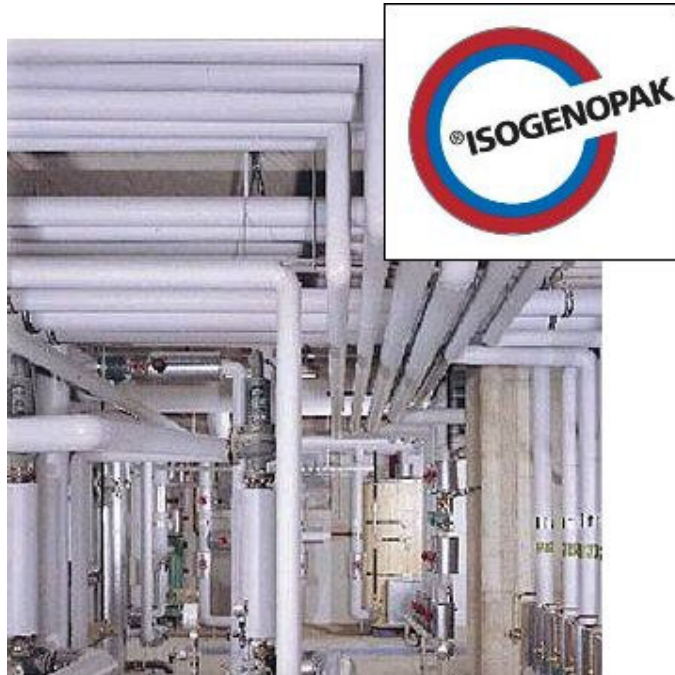


SEBALD - ISOGENOPAK

TECHNICAL - DATA

The product



Isogenopak[®] 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.

Isogenopak[®] 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 **Isogenopak**[®] are matched by equally good physical characteristics: high longitudinal and lateral tear resistance, high elasticity and shock resistance.

Isogenopak[®] 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, **Isogenopak**[®] has a light grey 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 $-20\text{ }^{\circ}\text{C}$ up to $+65\text{ }^{\circ}\text{C}$ in indoor use. The thermal conductivity λ of **Isogenopak**[®] is 0.16 W/mK .

Characteristics	Value	Unit	Measuring Method
Moisture resistance factor μ	app. 60000	---	DIN 52615
Impact strength	≥ 400	kJ/m^2	DIN EN ISO 8256
Tensile strength	> 35	N/mm^2	DIN EN ISO 527
Elasticity modulus	app. 1800	N/mm^2	DIN EN ISO 527
Linear heat expansion coefficient	1.5×10^{-4}	1/K	Leitz-Dilatometer
Emissivity ϵ	97	%	ISO 10292-A

- + resistant to aging and temperature changes from -20°C to $+65^\circ\text{C}$
- + low thermal conductivity of $\lambda = 0,16 \text{ W/mK}$
- + low weight: about 500 g/m^2 with 0,35 mm thickness
- + pallets easy to transport and stack
- + odorless
- + physiologically harmless
- + colour: Isogenopak grey

No flaming droplets in case of a fire

- + manufactured without ozone-depleting CFC and HCFC
- + free of plasticisers

Isogenopak[®] is not recommended for outdoor use (UV radiation)

Chemical resistance

Following to 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 %, aqueous	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 30–50% 50–65% 98%	50 20 20	
Benzene-benzole mix (fuel)	20				
Chlorine, gaseous (> 1 %), wet	20				
Chlorine, gaseous, dry	20		Hydrochlorid acid, aqueous up to 30 %	60	
Hydrogen chloride, dry	60		Oxygen, gaseous	60	
Iron salts, diluted solutions saturated solutions	40		Sulphur dioxide, gaseous (wet) gaseous (dry)	40	
	60			60	
Acetic acid, 25–60 %	60		Sulphoric acid 40–80% 80–90% 96% 96%, fuming	60 40 20 60	
Ethyl alcohol, solutions 96 %	40				
	60				
Glycerine	60				
Potassium hydroxide solution, 50 %	60		Carbon tetrachloride	20	
Potassiferous salts	40		Hydrogen, gaseous	60	

Key: = not resistant; = resistant under certain conditions; = resistant