RITRAMA

TECHNICAL DATA SHEET
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Ri-Screen P75 HT SB

PRODUCT DESCRIPTION / BENEFITS

Ri-Screen P75 HT SB series is a series of self-adhesive films for long-term marking on difficult substrates. The premium polymeric vinyl, UV stabilised, has an external colour stability up to 5 years, compatible with conventional (solvent-based) and UV curable screen-printing inks and for solvent, eco-solvent, latex, and UV inkjet printing inks. The solvent-based High Tack adhesive provides a good adhesion on most substrates, including industrial painted surfaces and low surface energy substrates such as PE and PP. The clay coated kraft paper or the micro-embossed PE coated Kraft liner ensures good planarity and printing results.
All products are REACH & RoHS compliant.

TYPICAL USE

- Long term outdoor/indoor markings
- Containers, Yellow Goods (earth moving equipment), Caravans

CONSTRUCTION

- **Face film:** 75 µm calendered polymeric film
- **Adhesive:** high tack clear solvent-based acrylic
  high tack grey solvent-based acrylic
- **Release liner:** clay coated kraft paper 135 g/m^2
  Airflow liner: micro-embossed PE coated kraft paper 140 g/m^2

Products:

White Gloss finish: Code 12805 - **Ri-Screen P75 White Gloss HT Grey SB**
12496 - **Ri-Screen P75 White Gloss HT Grey SB Airflow N**

CONVERTING METHOD

Screen printing with solvent-based and UV-curable inks.
Inkjet printing with solvent, eco-solvent, latex, and UV-curable inkjet inks. To achieve the best possible print quality, make sure that the correct ICC profiles or printer settings are used. The printed media should dry minimum 24h prior to lamination.
We recommend a lamination with Ri-Lam P75 Clear Gloss or Matt to protect the printed image from UV fading and mechanical abrasion.

APPLICATION METHOD / INSTRUCTIONS FOR USE

Products with simple liner: dry and wet application method on clean and degreased substrates.
Products with Airflow liner: only dry application method on clean and degreased substrates.
Application temperature above 10°C.

EXPECTED DURABILITY

The expected vertical outdoor durability in Central Europe (zone 1) is 7 years for white and 5 years for a clear film.
This information is based on real life experience and artificial aging according to ISO 4892-2.
Note: Exposure to severe temperature and ultra-violet light will cause a quicker deterioration. This applies also to polluted area, high altitude, horizontal applications, and south-facing exposure in north hemisphere.

SHELF LIFE

Shelf life is 2 years, when stored at 23 °C and 50 % relative humidity conditions.
Higher temperatures and/or humidity levels will reduce product shelf life.
NB: Printing results start to deteriorate after 12 months storage.

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PHYSICO-CHEMICAL PROPERTIES / TYPICAL VALUES

Face thickness, without adhesive		75 µm	ISO 534-80
Face thickness, with adhesive		115 µm	ISO 534-80
Tensile strength (machine direction)		> 15 N/cm	ISO 527
Elongation at break (machine direction)		> 150%	ISO 527
Fire resistance on aluminium		Self-extinguishing	ISO 3795:1989
Dimensional stability (1 week @70 °C on glass)		0.2 mm	FTM 14
adhesion on glass	- 20 minutes	10 N/25mm	FTM 1
	- 24 hours	12 N/25mm	
	- 1 week	14 N/25mm	
adhesion on mirror stainless steel	- 20 minutes	9 N/25mm	FTM 1
	- 24 hours	14 N/25mm	
	- 1 week	18 N/25mm	
adhesion on PE	- 20 minutes	4 N/25mm	FTM 1
	- 24 hours	4.5 N/25mm	
	- 1 week	5 N/25mm	
Minimum application temperature		+10 °C	
Service temperature		From -40 °C to +90 °C	
PE coated kraft paper liner		140 g/m^2	ISO 536
Airflow liner: micro-embossed PE coated kraft paper		140 g/m^2	
Humidity resistance		No effect	200 hours exposure
Water resistance		No effect	24 hours immersion
Detergent (1% solution)		No effect	24 hours immersion
Isopropyl alcohol / Water (20/80)		No effect	10 minutes immersion

QUALITY CERTIFICATION

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

DISCLAIMER