ORAGUARD® 289F

Laminating Film

Short description

Premium high-performance laminate film made of polyurethane, transparent and glossy, with highly effective UV protection and self-healing surface. This means smaller, superficial scratches (e.g. of squeegees, cleaning brushes) can be reliably removed through the exposure to heat (solar radiation, hot air dryer, etc.).

Front material

Polyurethane film, 0.05 mm

Liner

PET film, single-side silicone coated, 0.036 mm

Adhesive

Solvent-polyacrylate, permanent, Transparent, 0.028 mm

Technical properties

RESISTANCE

Durability	with vertical outdoor exposure, normal Central European climate 10 Year(s)	
Shelf Life	2 Year(s)	in original packaging, at 20 °C and 50% relative humidity
Resistance to solvents and chemicals	Oils, Greases, Fuels, Weak acids, Salts and alkalis, Washing suds (0.5 % household cleaner)	At room temperature
Maximum shrinkage	Maximum shrinkage along 0.2 mm Maximum shrinkage across 0.2 mm	Bonded to steel | FINAT TM 14 Bonded to steel, no measurable shrinkage in transverse direction
Elongation at break	Minimum elongation at break along 150 % Minimum elongation at break across 150 %	DIN EN ISO 527

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Tensile strength	Minimum tensile strength along 25 N/mm² Minimum tensile strength across 25 N/mm²	DIN EN ISO 527
Seawater resistance	no change	after 100h/35°C | adhered to aluminum, DIN EN ISO 9227
Temperature resistance	Minimum temperature -40 °C Maximum temperature 100 °C	

ADHESIVE PROPERTIES

Adhesive power	12 N/25 mm	after 24 h, stainless steel | FINAT TM 1, average value

PROCESSING

Application temperature	Minimum temperature 10 °C	

PRODUCT NOTE

Due to the diversity of prints and printing techniques, the user should test the suitability of ORAGUARD® laminating films for the specific print purpose, prior to use. Furthermore the application information published by ORAFOL must be followed.

IMPORTANT NOTES

All ORAGUARD® products are subject to careful quality control during the entire manufacturing process. It is guaranteed that the products are delivered in merchantable quality and free of manufacturing defects. The traceability of our goods in accordance with ISO 9001 is ensured by means of the roll number. The information published on ORAGUARD® products is based on research results which the company believes to be reliable, but which do not constitute a guarantee. Due to the wide variety of uses of ORAGUARD® products and the continuing development of new applications, it is the responsibility of the purchaser to carefully evaluate the suitability and performance of the product for its intended use. Furthermore, the processing instructions issued by ORAFOL must be observed. The purchaser bears all risks arising from the use of these products. All information is subject to change without notice.

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