

ORACAL® 451

Banner Cal

Short description

Highly flexible special PVC film with silk-gloss surface.

Front material

Partially polymer PVC film, 0.08 mm

Liner

One-sided siliconized kraft paper, 137 g/m²

Adhesive

Solvent-polyacrylate, permanent, Transparent, 0.026 mm

Recommended transfer materials

ORATAPE® HT95 Application Tape, ORATAPE® LT52 Application Tape, ORATAPE® LT95 Application Tape, ORATAPE® MT52 Application Tape, ORATAPE® MT72 Application Tape, ORATAPE® MT80P Application Tape, ORATAPE® MT95 Application Tape

Technical properties

RESISTANCE

Durability	with vertical outdoor exposure, normal Central European climate 3 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, Isopropyl alcohol, Washing suds (0.5 % household cleaner)	At room temperature
Maximum shrinkage	Maximum shrinkage along 0.4 mm Maximum shrinkage across 0 mm	bonded to steel FINAT TM 14 FINAT TM 14
Elongation at break	Minimum elongation at break along 120 % Minimum elongation at break across 150 %	DIN EN ISO 527

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Tensile strength	Minimum tensile strength along 15 N/mm ² Minimum tensile strength across 15 N/mm ²	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 60 °C	adhered on aluminium, central European normal climate

ADHESIVE PROPERTIES

Adhesive power	14 N/25 mm	after 24 h, on stainless steel Average value, FINAT TM 1
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PROCESSING

Application temperature	Minimum temperature 10 °C
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PRODUCT NOTE

Bonding to truck tarpaulins is generally not recommended. Before bonding, we recommend cleaning the substrate with ORAFOL® Surface Cleaner and ensuring that it is completely dry.

IMPORTANT NOTES

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