PRODUCT - INFORMATION

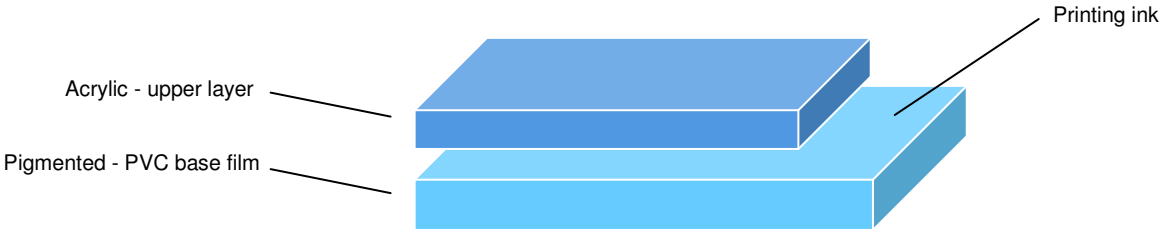
TYPE OF FOIL

RENOLIT EXOFOL MT
Embossed films, according to RAL GZ 716/ / 1, for lamination onto sheets for outdoor use in vertical assembly

Article - Nr. :

30.30.20 – **RENOLIT** EXOFOL MT plain
30.30.21 – **RENOLIT** EXOFOL MT printed

Embossing 117800 (Thickness 290 µm)



TECHNICAL DATA

		Standard Test Method	Unit	Values	Tolerances
1	Thickness	DIN EN ISO 4593	µm	290	± 25
2	Acrylic - Thickness	Internal test method	µm	80	± 8
3	Tensile strength at break	DIN EN ISO 527 - 3	N	70	≥ 70
4	Elongation at break	DIN EN ISO 527 - 3	%	100	> 100
5	Dimensional change	DIN 53377	%	5	< 5
6	Gloss – 117800	ISO 2813	units	10	± 3
7	Weatherability	EN 513 - method 1	Colour Change ≤ grey - scale 3 after the samples have received 12 GJ / m², according the requirements of RAL GZ 716 / 1 part 7		
8	Abrasion resistance	ISO 105 - X 12	grade 5		
9	Scratch resistance	Erichsentest 435	20 cN		
10	Embossing stability	Internal test method	No change in embossing, colour and gloss		

to 1: Plunger – 10 mm Ø with flat surface, pressure 50 kPa, measuring over embossing
to 3,4: sample width: 15 mm, Measurement in machine direction
to 5: 15 Min. / 100°C
to 6: Surface with 60° measuring head / Exceptions possible for special colours or decors
to 7: Grey - scale according to ISO 105 - A02
to 10: 15 Min. / 130°C

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RENOLIT
Rely on it.

PRODUCT - INFORMATION

GENERAL PRODUCT INFORMATION

Thermal behaviour:	Constant thermal behaviour is determined: a. by testing embossing stability by placing the film in an oven for 15 min at 130°C / 266°F. b. by testing embossing stability by heating to 150°C/302°F with infrared heaters. The test specimen should be kept firmly clamped in the warm-up and then during the cooling phase. The embossing structure of the cooled test specimen may appear flattened and slightly glossy in a visual inspection without the use of optical aids. There may be no defects or cracks. Changes that arise due to third-party processing and/or effect of temperatures over 150°C/302°F cannot be taken into account.
Checking thermal behaviour	When processing the foil it's necessary to check the foil's behaviour when during processing: subjected to heat by approriate thermoforming on laminated sheets. (For roll lengths of 500 running meter – check one laminated sheet per roll of foil; for roll lengths of 1000 running meter - check two laminated sheets per roll of foil).
Processing note:	Ensure that a minimum thickness of 50 µm of the acrylic layer is reached or exceeded after thermoforming.
Chemical resistance:	Resistant to normal household cleansing agents e.g. Ammonia water, aliphatic benzine, light alcoholic-water-solutions, cleansing agents (non-abrasive), water and building materials, e.g. cement, gypsum. Not resistant to organic solvents, mixtures of organic solvents and preparations containing organic solvents (e.g. varnish-thinners, varnish-removers, polish, adhesives and the like).
Stress Whitening:	On bending the film, whitening cannot be avoided due to the nature of the acrylic overlay. A cold deformation of the film, e.g. during pressing of metal sheets at room temperature is not allowed. For further information please contact RENOLIT.
Maintenance:	Appropriate cleaning with standard household cleansing-agents, excluding abrasive products. Further maintenance is not necessary. A list of the recommended cleansing agents is available at **RENOLIT**.

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