



## PRODUCT - INFORMATION

### TYPE OF FOIL

### RENOLIT EXOFOL MX

Embossed films, according to RAL GZ 716 / 1,  
for lamination onto profiles for outdoor use in vertical assembly

#### Article – No.:

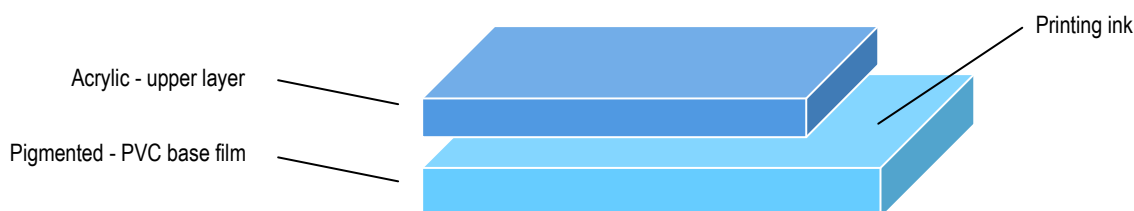
**30.30.10 – RENOLIT EXOFOL MX solid**

**30.30.11 – RENOLIT EXOFOL MX printed**

Embossing 080, 083, 087, 167, 168, 179, 195, 303 (Thickness 200 µm)

Embossing 048, 148 (Thickness 190 µm)

Embossing Sovereign, Elite, Finesse (Thickness 200 µm)



### TECHNICAL DATA

	Test Method	Unit	Values	Tolerances
1 Thickness	DIN EN ISO 4593	µm	190/200	± 15
2 Acrylic - thickness	Internal test method	µm	50	≥ 50
3 Tensile stress at break	DIN EN ISO 527 - 3	MPa	20	≥ 20
4 Elongation at break	DIN EN ISO 527 - 3	%	100	≥ 100
5 Dimensional change	DIN 53377	%	4	≤ 4
6 Gloss – 083, 167, 168, 179	ISO 2813	Measuring unit	17 – 23	
Gloss – 048	ISO 2813	Measuring unit	6 – 9	
Gloss – 080	ISO 2813	Measuring unit	8 – 13	
Gloss – 087	ISO 2813	Measuring unit	13 – 17	
Gloss – 148	ISO 2813	Measuring unit	11 – 14	
Gloss – 195	ISO 2813	Measuring unit	6 – 10	
Gloss – 303	ISO 2813	Measuring unit	15 – 19	
Gloss – Sovereign	ISO 2813	Measuring unit	17 – 23	
Gloss – Elite	ISO 2813	Measuring unit	9 – 12	
Gloss – Finesse	ISO 2813	Measuring unit	4 – 6	
7 Weatherability	EN 513 - method 1		Colour change ≤ grey - scale 3 after the samples have received 12 GJ / m <sup>2</sup> , according to 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 and/or colour	

to 1: Plunger – 10 mm Ø with flat surface, pressure 50 kPa, measuring over embossing  
to 3, 4: 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. / 95°C



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### GENERAL PRODUCT INFORMATION

- Profile processing:** Welding of the profiles according to technical rules is possible without a negative influence on the quality of the film. Bending of the profiles at temperatures of max. 130°C = 266°F leads to an increase in the gloss level on the surface.  
The original finish can be restored by using specific matting material (Poli-Quick 2000 from Biochem Cleantec GmbH, Am Oelbach 44, D-33334 Guetersloh, Germany) or steel wool (000) to abrade the surface again. In both cases the abrasive material must be applied with special care to avoid reducing the thickness of the surface protection. There will be no measurable influence on the weatherability of the film.
- Chemical resistance:** Resistant to normal household cleansing agents e.g. Ammonia water, aliphatic benzene, 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).
- Whitening:** Due to the nature of the acrylic film, stress-whitening can occur when forming. Unheated-forming of the film, e.g. when pressing sheets at room temperature, is not recommended and is likely to affect the warranty. For further information, contact **RENOLIT**.
- Maintenance:** Appropriate cleaning with damp soft cloth with mild detergents, excluding abrasive products. Further maintenance is not necessary.  
A list of the recommended cleansing agents is available at **RENOLIT**.

This technical information sheet represents our latest state of knowledge and shall inform without obligation. The herein stated details do not release the manufacturer of our products from their own inspections and tests, which must correspond with the relevant national guidelines for its individual intended purpose. Especially it is the duty of the consumer to control if the purchased product is suitable for its intended purpose.