

PRODUCT INFORMATION

TYPE OF FOIL

RENOLIT EXOFOL FX

Embossed multilayer film manufactured in accordance with RAL GZ 716/1, for lamination on to substrates for interior and exterior application in vertical assembly of components. Primed on the back of the film

Article Number:

30.30.30 – RENOLIT EXOFOL FX solid colour 30.30.31 – RENOLIT EXOFOL FX printed

Emboss structure 808302, 119501 (Thickness 170 μ m) Emboss structure 116701, 116801 (Thickness 180 μ m)



TECHNICAL DATA

		Standard Test Method	<u>Unit</u>	Values	<u>Tolerances</u>
1	Thickness – 808302, 119501	DIN EN ISO 4593	μm	170	+ 20/-10
	Thickness – 116701, 116801	DIN EN ISO 4593	μm	180	± 15
2	Tensile stress at break	DIN EN ISO 527 - 3	MPa	15	≥ 15
3	Elongation at break	DIN EN ISO 527 - 3	%	60	≥ 60
4	Dimensional change	DIN 53377	%	5	≤ 5
5	Gloss – 808302	ISO 2813	Measuring unit	7 – 11	
	Gloss – 116701, 116801	ISO 2813	Measuring unit	17 – 23	
	Gloss – 119501	ISO 2813	Measuring unit	11 – 15	
6	Scratch resistance	Erichsen test 435	cN	20	≥ 20
7	Abrasion resistance	ISO 105 - X 12		Grade 5	
8	Embossing stability	Internal test method	No change in embossing, colour and gloss		
9	Weatherability	EN 513 - method 1	Colour change ≤ grey - scale 3 after the samples have received 18 GJ / m², according to the 1.5-fold requirements		

of RAL GZ 716/1

to 1: Plunger – 10 mm Ø with flat surface, pressure 50 kPa, measuring over emboss structure

- to 2, 3: Measurement in machine direction
- to 4: 10 Min / 100°C
- to 5: Surface with 60° measuring head. Exceptions possible for special colours or decors
- to 8: 10 Min. / 80°C
- to 9: Greyscale according to ISO 105 A02

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PRODUCT INFORMATION

GENERAL PRODUCT INFORMATION

Profile processing:	Laminated profiles can be welded, following manufacturing guidelines, without affecting the quality of the film.
Stress 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 will affect the warranty
Chemical resistance:	Due to the excellent chemical resistance of PVDF, RENOLIT EXOFOL FX films are resistant to most organic acids and bases, aliphatic and aromatic hydrocarbons, alcohols and halogenated solvents, and building materials, e.g. cement, gypsum. With the exception of fluorine, our film is also resistant to halogens (chlorine, bromine, iodine). Not resistant to high polar organic solvents (e.g. acetone, ethyl acetate, dimethylformamide, dimethylacetamide), fuming sulphuric acid, amines, and basic liquids with pH \geq 12. Please take into account that the chemical compatibility is strongly dependent on time, temperature, concentration, chemical condition and state of aggregation of the substance. Please be careful near any cut edges of the film e.g. welded corners, as the film is unprotected in the cross section. Side penetration of chemicals can not be excluded.
Maintenance:	Appropriate cleaning using a damp cloth with standard household cleaning agents, excluding abrasive products. For persistence dirt and stains, eg. Graffiti, RENOLIT recommend Graffinet Plexiclean from EAG GmbH, Ringstraße 4, D-30457 Hannover, Germany (<u>www.eag.eu</u>) and Magnus 1302 from Henkel AG & Co. KGaA, Henkelstraße 67, D-40191 Düsseldorf, Germany (<u>www.henkel.de</u>). No further maintenance is required

For further information, please contact 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 using our films from their own inspections and tests, which must correspond with the relevant national guidelines for its intended purpose. It is the duty of the customer to determine if the purchased product is suitable for its intended purpose.

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