

POLYDET® HighGloss

- fibre glass reinforced composite in coils
- smooth surface for highest aesthetical aspects
- combines the look of painted aluminum with the mechanical properties of FRP
- coated with premium gelcoat resin system
- machine-made cold cured FRP

UV-/weathering resistance:	excellent
Composition:	gelcoat, chopped strand mat, UP-resin
Thickness:	1.1 – 2.5 mm
Width:	up to 3,300 mm
Length:	80 m coils
Colour:	RAL, NCS, customer-specific
Surface protection:	one-sided protection film, self-adherent
Bonding preparation:	one-sided corona treatment, film-treated
Painting:	yes
Density:	approx. 1.3 g/cm ³



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Technical Data

Inspection Criterion									
Thickness	1.3	1.5	1.5	1.7	2.0	2.3	2.5	mm	
Physical Properties								Unit	Norm
Density	1.42	1.46	1,48	1.43	1.37	1.39	1.41	g/cm ³	ISO 1183-1A
Glass Content	24	27	34	24	24	25	29	%	ISO 1172
Water Absorption	0.3	0.3	0,2	0.3	0.2	0.3	0.2	%	ISO 62
Volatile Content	0.5	0.5	0,5	0.5	0.4	0.5	0.5	%	ASTM D3530
Mass per Unit Area	1.84	2.19	2,22	2.43	2.74	3.20	3.55	kg/m ²	
Mechanical Properties									
Flexural Strength	182	192	209	181	139	145	177	N/mm ²	ISO 14125
Flexural Modulus	5000	5200	4100	5100	4500	4700	4700	N/mm ²	ISO 14125
Flexural Strain	3.8	3.8	4,1	4.0	3.6	3.8	4.3	%	ISO 14125
Tensile Strength	81	86	115	76	71	73	70	N/mm ²	ISO 527-4
Tensile Modulus	6800	7000	800	6500	6200	6300	6200	N/mm ²	ISO 527-4
Elongation at Break	1.5	1.5	1,9	1.4	1.3	1.4	1.4	%	ISO 527-4
Impact Strength	46	46	46	49	41	42	63	N/mm ²	ISO 179-1/2n
Penetration Test	5	8	8	8	12	13	18	Nm	ISO 6603-2

The indicated values are the result of measurements done on samples from the above mentioned productions. Consequently, they do not represent any specification.