

POLYDET® HighGloss



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
Colour	RAL, NCS, customer-specific
Surface Protection	one-sided protection film
Bonding Preparation	one-sided corona or film treatment
Paintable	yes

Product Description

- 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

Technical Data

								Unit	Norm
Thickness	1.3	1.4	1.5	1.7	2.0	2.3	2.5	mm	
Physical Properties									
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	8000	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.