

POLYDET® HighGloss WR



UV-/Wheatering Resistance	excellent
Composition	gelcoat, chopped strand mat, woven roving, UP-resin
Thickness	1.3 – 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
- with additional woven roving for increased mechanical properties

Technical Data

					Unit	Norm
Thickness	1.3	1.5	2.0	2.5	mm	
Physical Properties						
Density	1.45	1.40	1.52	1.45	g/cm ³	ISO 1183-1A
Glass Content	31	27	38	29	%	ISO 1172
Water Absorption	0.3	0.3	0.3	0.3	%	ISO 62
Volatile Content	0.5	0.5	0.5	0.5	%	ASTM D3530
Mass per Unit Area	1.89	2.10	3.04	3.62	kg/m ²	
Mechanical Properties						
Flexural Strength	252	263	271	242	N/mm ²	ISO 14125
Flexural Modulus	4,300	5,400	6,400	4,500	N/mm ²	ISO 14125
Flexural Strain	6.6	4.8	4.4	4.6	%	ISO 14125
Tensile Strength	127	115	128	120	N/mm ²	ISO 527-4
Tensile Modulus	8,200	7,900	8,900	7,900	N/mm ²	ISO 527-4
Elongation at Break	1.8	1.7	1.7	1.7	%	ISO 527-4
Impact Strength	82	80	91	91	N/mm ²	ISO 179-1/2n
Penetration Test	9	10	16	16	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.