

# POLYDET® HighGloss



<b>UV-/Weathering Resistance</b>	excellent
<b>Composition</b>	gelcoat, chopped strand mat, UP-resin
<b>Thickness</b>	1.1 – 2.5 mm
<b>Width</b>	up to 3,300 mm
<b>Length</b>	80 m
<b>Colour</b>	RAL, NCS, customer-specific
<b>Surface Protection</b>	one-sided protection film
<b>Bonding Preparation</b>	one-sided corona or film treatment
<b>Paintable</b>	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	1.1	1.3	1.5	1.7	2.0	2.3	2.5	mm	
<b>Physical Properties</b>									
<b>Density</b>	1.38	1.42	1.46	1.43	1.37	1.39	1.41	g/cm <sup>3</sup>	ISO 1183-1A
<b>Glass Content</b>	19.7	24	27	24	24	25	29	%	ISO 1172
<b>Water Absorption</b>	0.3	0.3	0.3	0.3	0.2	0.3	0.2	%	ISO 62
<b>Volatile Content</b>	0.5	0.5	0.5	0.5	0.4	0.5	0.5	%	ASTM D3530
<b>Mass per Unit Area</b>	1.51	1.84	2.19	2.43	2.74	3.20	3.55	kg/m <sup>2</sup>	
<b>Mechanical Properties</b>									
<b>Flexural Strength</b>	145	182	192	181	139	145	177	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Modulus</b>	3103	5000	5200	5100	4500	4700	4700	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Strain</b>	4.1	3.8	3.8	4.0	3.6	3.8	4.3	%	ISO 14125
<b>Tensile Strength</b>	63	81	86	76	71	73	70	N/mm <sup>2</sup>	ISO 527-4
<b>Tensile Modulus</b>	5585	6800	7000	6500	6200	6300	6200	N/mm <sup>2</sup>	ISO 527-4
<b>Elongation at Break</b>	1.4	1.5	1.5	1.4	1.3	1.4	1.4	%	ISO 527-4
<b>Impact Strength</b>		46	46	49	41	42	63	N/mm <sup>2</sup>	ISO 179-1/2n
<b>Penetration Test</b>	4	5	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.