

# POLYDET® Performance Plus WR



<b>UV-/Wheathering Resistance</b>	excellent
<b>Composition</b>	gelcoat, tissue, chopped strand mat, woven roving, UP-resin
<b>Thickness</b>	1.2 – 3.0 mm
<b>Width</b>	up to 3,300 mm
<b>Length</b>	80 m, 120 m, 240 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 and sheets
- coated with premium gelcoat resin system
- homogenous glossy surface
- very good fibre coverage due to additional tissue
- with additional woven roving for increased mechanical properties
- low thermal expansion
- available as **Antibac-Version**

## Technical Data

						Unit	Norm
Thickness	1.3	1.5	2.0	2.3	2.5	mm	
<b>Physical Properties</b>							
<b>Density</b>	1.40	1.41	1.40	1.38	1.41	g/cm <sup>3</sup>	ISO 1183-1A
<b>Glass Content</b>	25	26	27	29	28	%	ISO 1172
<b>Water Absorption</b>	0.3	0.3	0.3	0.3	0.2	%	ISO 62
<b>Volatile Content</b>	0.4	0.4	0.4	0.4	0.4	%	ASTM D3530
<b>Mass per Unit Area</b>	1.82	2.11	2.80	3.17	3.53	kg/m <sup>2</sup>	
<b>Mechanical Properties</b>							
<b>Flexural Strength</b>	240	251	177	139	148	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Modulus</b>	3,800	3,700	3,800	4,700	4,300	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Strain</b>	4.9	5.0	4.3	3.3	3.9	%	ISO 14125
<b>Tensile Strength</b>	111	107	129	107	100	N/mm <sup>2</sup>	ISO 527-4
<b>Tensile Modulus</b>	6,900	6,800	7,200	7,300	7,400	N/mm <sup>2</sup>	ISO 527-4
<b>Elongation at Break</b>	2.0	1.9	2.1	1.8	1.5	%	ISO 527-4
<b>Impact Strength</b>	56	63	71	71	88	N/mm <sup>2</sup>	ISO 179-1/2n
<b>Penetration Test</b>	9	10	16	19	20	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.