

POLYDET® Performance WR

- fibre glass reinforced composite in coils and sheets
- coated with premium gelcoat resin system
- homogenous glossy surface
- with additional woven roving for increased mechanical properties
- low thermal expansion
- machine-made hot cured FRP
- available as **Antibac-Version**

UV-/weathering resistance:	excellent
Composition:	gelcoat, tissue, chopped strand mat, woven roving, UP-resin
Thickness:	1.1 – 3.0 mm, other thicknesses available on request
Width:	up to 3,300 mm
Length:	80, 120 or 240 m, sheets on request
Colour:	RAL, NCS, customer-specific
Surface protection:	optional protection film, self-adherent
Bonding preparation:	without, one-sided corona treatment or film-treated
Painting:	yes
Density:	approx. 1.4 g/cm ³



POLYDET® Performance WR

Technical Data

Inspection Criterion								
Thickness	1.3	1.5	1.8	2.0	2.5	3.0	mm	
Physical Properties							Unit	Norm
Density	1.40	1.41	1.41	1.40	1.42	1.48	g/cm ³	ISO 1183-1A
Glass Content	26	27	27	26	28	32	%	ISO 1172
Water Absorption	0.3	0.3	0.3	0.3	0.2	0.3	%	ISO 62
Volatile Content	0.3	0.3	0.3	0.3	0.2	0.5	%	ASTM D3530
Mass per Unit Area	1.82	2.11	2.50	2.80	3.55	4.4	kg/m ²	-
Mechanical Properties								
Flexural Strength	185	179	201	175	200	215	N/mm ²	ISO 14125
Flexural Modulus	3,800	3,500	3,800	4,200	5,300	7,500	N/mm ²	ISO 14125
Flexural Strain	4.6	4.5	4.9	4.1	3.7	2.9	%	ISO 14125
Tensile Strength	133	148	147	119	115	111	N/mm ²	ISO 527-4
Tensile Modulus	6,800	7,600	7,500	7,300	7,700	9,200	N/mm ²	ISO 527-4
Elongation at Break	2.1	2.3	2.4	1.9	1.8	1.4	%	ISO 527-4
Impact Strength	52	59	86	79	80	116	N/mm ²	ISO 179-1/2n
Penetration Test	9	11	17	19	22	25	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.