

# POLYDET® HighGloss r-PET



<b>UV-/Wheatering Resistance</b>	excellent
<b>Composition</b>	gelcoat, chopped strand mat, woven roving, recycling UP-resin
<b>Thickness</b>	1.3 – 2.0 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
- matrix of recycling resin with 30% PET content
- 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
<b>Thickness</b>	<b>1.3</b>	<b>mm</b>	
<b>Physical Properties</b>			
<b>Density</b>	1.47	g/cm <sup>3</sup>	ISO 1183-1A
<b>Glass Content</b>	30.8	%	ISO 1172
<b>Water Absorption</b>	0.4	%	ISO 62
<b>Mechanical Properties</b>			
<b>Flexural Strength</b>	259	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Modulus</b>	5,270.9	N/mm <sup>2</sup>	ISO 14125
<b>Flexural Strain</b>	5.43	%	ISO 14125
<b>Tensile Strength</b>	109.7	N/mm <sup>2</sup>	ISO 527-4
<b>Tensile Modulus</b>	7,494.3	N/mm <sup>2</sup>	ISO 527-4
<b>Elongation at Break</b>	1.72	%	ISO 527-4
<b>Impact Strength</b>	78	N/mm <sup>2</sup>	ISO 179-1/2n
<b>Penetration Test</b>	9.7	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.