

# POLYDET® Embossed PowerStar



<b>UV-/Wheatering Resistance</b>	conditionally
<b>Composition</b>	glass fabric, UP-resin
<b>Thickness</b>	1.5 mm, 2.0 mm
<b>Width</b>	up to 2,400 mm
<b>Length</b>	80 m, 120 m
<b>Colour</b>	RAL, NCS, customer-specific
<b>Surface Protection</b>	without, as Embossed-Protect with foil
<b>Bonding Preparation</b>	one-sided corona
<b>Paintable</b>	no

## Product Description

- fibre glass reinforced thermosetting composite
- structured surface
- extremely high glass content for outstanding mechanical properties

## Technical Data

				Unit	Norm
Thickness		1.5	2.0	mm	
Physical Properties					
<b>Density</b>		1.59	1,54	g/cm <sup>3</sup>	ISO 1183-1A
<b>Glass Content</b>		50	42	%	ISO 1172
<b>Water Absorption</b>		0.3	0.12	%	ISO 62
<b>Volatile Content</b>		<0.6	<0.5	%	ASTMD3530
<b>Mass per Unit Area</b>		2.4	3.1	kg/m <sup>2</sup>	
Mechanical Properties					
<b>Tensile Strength</b>	0°	227	166	N/mm <sup>2</sup>	ISO 527-4
<b>E-Modul</b>	0°	12,800	11,800	N/mm <sup>2</sup>	ISO 527-4
<b>Elongation at Break</b>	0°	1.9	1.7	%	ISO 527-4
<b>Tensile Strength</b>	90°	174	112	N/mm <sup>2</sup>	ISO 527-4
<b>E-Modul</b>	90°	10,900	10,900	N/mm <sup>2</sup>	ISO 527-4
<b>Elongation at Break</b>	90°	1.9	1.7	%	ISO 527-4
<b>Flexual Strength</b>	0°	305	304	N/mm <sup>2</sup>	EN 14125A
<b>Flexual Elasticity Modul</b>	0°	5,400	8,250	N/mm <sup>2</sup>	EN 14125A
<b>Outer Fiber Strain</b>	0°	4.1	3.6	%	EN 14125A
<b>Flexual Strength</b>	90°	290	229	N/mm <sup>2</sup>	EN 14125A
<b>Flexual Elasticity Modul</b>	90°	5,600	6,350	N/mm <sup>2</sup>	EN 14125A
<b>Randfaserdehnung</b>	90°	4.1	3.4	%	EN 14125A
<b>Impact Strength</b>	90°		91	kJ/m <sup>2</sup>	EN ISO179-1/2n
<b>Impact Penetration</b>		17	22	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.