OPTIPLAN

Technical Datasheet

POLYDET® PowerStar Plus r-PET

UV/Wheatering Resistance	excellent
Composition	gelcoat, fine woven roving, UP-recycling resin
Thickness	0.7 mm
Width	up to 3,300 mm
Length	80 m, 120 m, 240 m
Colour	RAL, NCS, customer-specific
Surface Protection	one-sided protection film
Bonding Preparation	one-sided corona or film treatment
Paintable	yes

Product Description

- UP resin with 30% recycled content
- very low weight / high lightweight construction potential
- extremely high glass content for highest mechanical properties
- surface sealing though high-quality gelcoat layer
- lower thermal expansion

Technical Data

		Unit	Norm
Thickness	**0.7**	**mm**	
	Physical Properties		
Density	1.67	g/cm³	ISO 1183-1A
Glass Content	49.3	%	ISO 1172
Water Absorption	0.54	%	ISO 62
	Mechanical Properties		
Tensile Strength longitudinal	234.1	N/mm²	ISO 527-4
Tensile Strength across	224.9	N/mm²	ISO 527-4
Tensile Modulus longitudinal	11963.4	N/mm²	ISO 527-4
Tensile Modulus across	12268.5	N/mm²	ISO 527-4
Elongation at Break longitudinal	2.32	%	ISO 527-4
Elongation at Break across	2.19	%	ISO 527-4
Penetration Test	10,54	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.dar.

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