

POLYDET® HighGloss



| | |
|----------------------------------|---------------------------------------|
| UV-/Weathering Resistance | excellent |
| Composition | gelcoat, chopped strand mat, UP-resin |
| Thickness | 1.1 – 2.5 mm |
| Width | up to 3,300 mm |
| Length | 80 m |
| Colour | RAL, NCS, customer-specific |
| Surface Protection | one-sided protection film |
| Bonding Preparation | one-sided corona or film treatment |
| Paintable | yes |

Product Description

- fibre glass reinforced composite in coils
- smooth surface for highest aesthetical aspects
- combines the look of painted aluminum with the mechanical properties of FRP
- coated with premium gelcoat resin system

Technical Data

| | | | | | | | | Unit | Norm |
|------------------------------|------|------|------|------|------|------|------|-------------------|--------------|
| Thickness | 1.1 | 1.3 | 1.5 | 1.7 | 2.0 | 2.3 | 2.5 | mm | |
| Physical Properties | | | | | | | | | |
| Density | 1.38 | 1.42 | 1.46 | 1.43 | 1.37 | 1.39 | 1.41 | g/cm ³ | ISO 1183-1A |
| Glass Content | 19.7 | 24 | 27 | 24 | 24 | 25 | 29 | % | ISO 1172 |
| Water Absorption | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | % | ISO 62 |
| Volatile Content | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | % | ASTM D3530 |
| Mass per Unit Area | 1.51 | 1.84 | 2.19 | 2.43 | 2.74 | 3.20 | 3.55 | kg/m ² | |
| Mechanical Properties | | | | | | | | | |
| Flexural Strength | 145 | 182 | 192 | 181 | 139 | 145 | 177 | N/mm ² | ISO 14125 |
| Flexural Modulus | 3103 | 5000 | 5200 | 5100 | 4500 | 4700 | 4700 | N/mm ² | ISO 14125 |
| Flexural Strain | 4.1 | 3.8 | 3.8 | 4.0 | 3.6 | 3.8 | 4.3 | % | ISO 14125 |
| Tensile Strength | 63 | 81 | 86 | 76 | 71 | 73 | 70 | N/mm ² | ISO 527-4 |
| Tensile Modulus | 5585 | 6800 | 7000 | 6500 | 6200 | 6300 | 6200 | N/mm ² | ISO 527-4 |
| Elongation at Break | 1.4 | 1.5 | 1.5 | 1.4 | 1.3 | 1.4 | 1.4 | % | ISO 527-4 |
| Impact Strength | | 46 | 46 | 49 | 41 | 42 | 63 | N/mm ² | ISO 179-1/2n |
| Penetration Test | 4 | 5 | 8 | 8 | 12 | 13 | 18 | 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.