

## **POLYDET® High Gloss – Brilliant shine**

|                    |                            |
|--------------------|----------------------------|
| Material:          | <b>POLYDET® High Gloss</b> |
| Product thickness: | <b>1,5mm</b>               |
| Product width:     | <b>up to 3300mm</b>        |
| Coil length:       | <b>75m</b>                 |
| Colors available:  | <b>RAL, NCS</b>            |

### **DEFINITION**

The POLYDET® High Gloss is a special designed cold cured glass fibre reinforced composite for highest aesthetical aspects. It provides a smooth surface and an invisible fiberstructure in comparison with standard FRP skins. POLYDET High Gloss utilizes a high grade flexible isophthalic Gelcoat for ultimate weathering properties.

### **USE / APPLICATION**

POLYDET® High Gloss is intended for applications which require the look of painted aluminium in combination with the mechanical properties of FRP (Caravans, Motorhomes etc.)

### **CONSUMER CARE / MAINTENANCE**

Minimum care is required to maintain appearance. Regular washing with mild detergents is recommended. We strongly recommend against using caustic, highly alkaline cleaners or cleaners with ammonia and not utilizing abrasive cleaners. Use a high-grade automotive wax as needed to restore HIGH Gloss original luster and color.

| <b>Properties</b>                   | <b>Value</b> | <b>Unit</b>       | <b>Norm</b>     |
|-------------------------------------|--------------|-------------------|-----------------|
| <b><u>Physical Properties</u></b>   |              |                   |                 |
| Density                             | 1.46         | g/cm <sup>3</sup> | ISO 1183-1A     |
| Glass content                       | 27           | %                 | ISO 1172        |
| Water absorption                    | 0.3          | %                 | ISO 62          |
| Volatile content                    | 0.5          | %                 | ASTM D3530      |
| Barcol-Hardness                     | 40           | -                 | EN 59           |
| <b><u>Mechanical Properties</u></b> |              |                   |                 |
| Flexural strength                   | 192          | N/mm <sup>2</sup> | ISO 14125       |
| Flexural modulus                    | 5,200        | N/mm <sup>2</sup> | ISO 14125       |
| Flexural strain                     | 3.8          | %                 | ISO 14125       |
| Tensile strength                    | 86           | N/mm <sup>2</sup> | ISO 527-4       |
| Tensile modulus                     | 7,000        | N/mm <sup>2</sup> | ISO 527-4       |
| Elongation at break                 | 1.5          | %                 | ISO 527-4       |
| Impact strength                     | 46           | kJ/m <sup>2</sup> | ISO 179-1 / 2 n |
| Penetration test                    | 8            | Nm                | ISO 6603-2      |

The indicated values are the result of measurements done on samples. Consequently they do not represent any specification.