

POLYPLEX™ SURFBOARD LAMINATING RESIN

Improved weathering properties and cosmetic appearance



POLYPLEX™ SURFBOARD LAMINATING RESIN is a medium reactivity, orthophthalic-based unsaturated polyester resin, designed for use in FRP Surfboard constructions and has been specially formulated to provide rapid glass fibre wetting properties, low colour and rapid cure rates following gelation.

POLYPLEX™ SURFBOARD LAMINATING RESIN is non-thixotropic, UV-stabilised and pre-promoted for ambient temperature curing using MEKP catalyst. This resin has been specially designed to make the surfboard appear brighter upon cure and forms part of the new grade of acrylic modified resins with lower styrene levels and improved UV resistance properties.

Fast gel and cure properties

- Fast gel and cure properties
- Specially formulated cure system
- Lower styrene content
- Finished surfboard will retain its original appearance for longer
- Improved UV resistance
- Short moulding cycle times, rapid turnover
- Low colour, excellent clarity in cured laminates
- Lower levels of styrene emission

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Product Properties & Performance Data

Typical Liquid Resin Properties

Viscosity – Brookfield RVT 3/100	550 – 700 cP
Density	1.10 gcm ⁻³
Styrene Content	34 – 37%
Appearance	Clear Blue Liquid
Gel Time (1.5% MEKP NR20)	4 – 6 minutes
Shelf Life (when stored in original closed container in the shade)	6 months

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Typical Cast Unfilled Resin Properties

Barcol 934 Hardness	30 – 40
Density	1.19 gcm ⁻³
Volume Shrinkage	7 – 8%
Tensile Strength	69 MPa
Flexural Strength	89 MPa
Flexural Modulus	3800 MPa
Elongation at break	2.0 – 2.5%
Heat Distortion Temperature	65 – 70°C

Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80° C followed by two hours at 100° C.

Related Products

- Polyplex™ Surfboard Filler Resin
- Polyplex™ Surfboard Finish Resin

For more information on this product please contact our Customer Service Team on 1800 789 607 or visit www.allnex.com

POLYPLEX™ SURFBOARD LAMINATING RESIN IS NOW AVAILABLE FROM ALLNEX COMPOSITES

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