

PRODUCT CODE: C200325

POLYPLEX NON THIXOTROPIC RESIN is a medium reactivity, orthophthalic acid based unsaturated polyester resin, is non-thixotropic and pre-promoted, and is suitable for use in the manufacture of FRP transport panels.

FEATURES

- Colour change mechanism
- Low viscosity
- Medium gel and positive cure characteristics

BENEFITS

- Indicates presence of initiator
- Excellent glass fibre wet-out properties
- Suitable for general laminating (flat panel moulds)

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE
Viscosity – Brookfield LVT 2/60	250 - 350 cP
Density	1.10 gcm ⁻³
Styrene Content	39 - 42%
Appearance	Clear Blue Liquid
Flash Point - Setaflash	31C
Gel Time (2.5% Curox M340)	30- 35 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

PROPERTY	TYPICAL VALUE	TEST DETAILS
Density	1.19 gcm ⁻³	ISO/R 1183
Tensile Strength	60 MPa	ISO R527
Elongation at break	2.0%	ISO R527
Flexural Strength	100 MPa	ISO 178
Flexural Modulus	4000 MPa	ISO 178
Volume Shrinkage	7-8%	ISO 3521
Heat Distortion Temperature	70 - 75C	ISO 175 (1.8 MPa)
Barcol 934-1 Hardness	45	Barcol Impressor

Cast resin was prepared as laid down in BS3532 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.

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use