

PRODUCT CODE: C280027

POLYPLEX DCPD WHITE INFUSION RESIN is a pre-accelerated, white, non-thixotropic DCPD modified unsaturated polyester resin, which has been specially developed for use in room temperature Vacuum-assisted resin injection moulding (RIVA), resin transfer moulding (RTM) or injection moulding Composite applications.

POLYPLEX DCPD WHITE INFUSION RESIN has a low viscosity to ensure rapid wet-out of the glass fibres. The reduced shrinkage of this resin results in mouldings with good surface finish and cosmetic properties.

FEATURES

- Pre-accelerated
- Low viscosity
- Reduced resin shrinkage
- Good mechanical properties
- Rapid curing properties

BENEFITS

- Require only the use of a suitable catalyst to start the curing process
- Rapid wet-out of the reinforcements and reduced air entrapment
- Improved surface finish of the finished part
- Can be used in applications where physical properties are a requirement
- Reduced cycle times resulting in more finished parts been manufactured

RELATED PRODUCTS

C280031 – Polyplex DCPD White Infusion 15 (Winter grade of C280027)

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	White liquid
Viscosity@ 25°C, centipoise	110 - 130
Geltime at 25°C using: 1.5% catalyst by weight (50/50 Butanox M60, Curox A300)	25 – 30 minutes
Geltime at 25°C using: 1.5% w/w Butanox M50	36 minutes
1.5% w/w Curox A300	25 minutes
1.5% Curox M340	31 minutes
Solids Content %	62 - 64
Shelf Life (@ ambient temperature and stored away from any heat sources and sunlight)	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
Heat Deflection Temperature	75°C	ISO 175
Barcol hardness (934-1)	45	ASTM D 2583
Tensile Strength	73.2 MPa	ISO R527
Tensile Modulus	5480MPa	ISO R527
Elongation at Break	2.37MPa	ISO R527

Cured at room temperature for sixteen hours then post cured for two hours at 80°C

APPLICATION GUIDELINES

POLYPLEX DCPD WHITE INFUSION RESIN is supplied pre-accelerated and requires only the addition of a catalyst to start the curing cycle.

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.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use.