

Polyplex™ DCPD White Infusion Resin

Infusion Resin

A pre-accelerated, white, non-thixotropic DCPD modified unsaturated polyester resin specially developed for use in room temperature Vacuum-assisted resin injection moulding (RIVA), resin transfer moulding (RTM) or injection moulding applications. It 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.

Value Proposition

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



Target Applications

Transportation



Caravans



Please contact your account manager to discuss any further application areas.

Typical Cast Unfilled Resin Properties

Property	Typical Value	Test Details
Heat Deflection Temperature	75 °C	ISO 175
Barcol hardness (934-1)	38	ASTM D 2583

Cured at room temperature for 16 hours then post cured for two hours at 80°C, then 2 hours at 120°C.

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 1.5% w/w Curox A300 1.5% Curox M340	36 minutes 25 minutes 31 minutes
Solids Content %	62 - 64

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.

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