



**TRICEL**

GENERATIONS OF INNOVATION

# RESINS

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General Purpose Resins  
Chemical and Corrosion Resistant Resins  
DCPD Resins  
RTM and Injection Resins  
Casting / DCPD Resins  
Fire Retardant Resins

## Composites Supply Partner

*Focused on Product & Technical Expertise*

[www.tricelcomposites.co.uk](http://www.tricelcomposites.co.uk)

## ▶ General Purpose Resins

A wide range of orthophthalic resins are available with or without Water Regulations Advisory Scheme (WRAS) approval and/or Lloyds approval. These tend to be medium viscosity resins with a variety of gel and cure times to suit requirements. General purpose (GP) resins are mainly used in hand lay and spray applications.

Tricel distribute resins from some of the world's leading manufacturers and these are available in clear, white or any RAL/BS colours.

Tricel own branded products are bespoke for individual application, whether for cost-effective purposes or for production requirements.

## ▶ Chemical and Corrosion Resistant Resins

Bisphenol-A epoxy vinyl ester is used for application in a corrosive environment. This product is also suitable for mould construction as well as promoting chemical resistance.

Bisphenol epoxy novolac vinyl esters give outstanding chemical and mechanical properties, along with a resistance to higher temperatures.

For further information please review our corrosion resistance guides which are available upon request.

## ▶ DCPD Resins

Designed to give aesthetically pleasing parts with reduced print-through. Medium viscosity and fast wet-out resin for both thin and thick laminates from 3-8mm.

As it has low viscosity, DCPD resins can be used as a casting resin. It gives a good mechanical bond against acrylic.

## ▶ RTM & Infusion Resins

Resin transfer moulding (RTM) resins can be orthophthalic, dicyclopentadiene (DCPD), isophthalic or vinyl ester and are available with varying gel times. Bespoke versions are also available dependent upon part size and flow.

DCPD-Ortho refers to a blended resin combining both DCPD and orthophthalic, these have a low viscosity, low styrene content and have a quick Barcol (hardness test) reading upon demould, this can reduce shrinkage and print-through. Bespoke resins are available to suit all necessary requirements.

## ▶ Casting / DCPD Resins

These resins have low shrinkage and low viscosity allowing filler levels of up to 85% in polymer concrete, snap cure and are also available in various gel times.

Clear casting resins can be used for creating a water-clear glass like finish and for bonding stone aggregates.

## ▶ Fire Retardant Resins

Various fire retardant resin types are available:

Class 0 – Highest class and mainly used for rail industries and such environments.

Class 0/1 – Highest class of fire resistance in polyester base resin.

Class 1 – Typically used for its accreditation to pass BS476 part 7 testing (fire tests on building materials & structures).

Class 2 – This is the most cost effective of the fire-retardant resin types and employed mainly when just a surface flame resistance is required.

Any questions regarding the above, please contact our sales team for technical information or assistance.

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