

# CRYSTIC VE 676T

## Vinyl Ester Resin

### Introduction

**Crystic VE676T** is thixotropic version of Crystic VE676, an epoxy bisphenol A based vinyl ester resin.

### Application

**CRYSTIC VE676T** is suitable for hand lay-up, spray lay-up and similar process.

### Features and Benefits

Thixotropic additives give sag resistance of applied material to vertical surfaces.

### Typical Properties

#### Liquid resin:

Acid Value	mgKOH/g	max 8
Volatile content	%	46-50
Viscosity at 25°C Brookfield RVT sp2/5 RPM sp2/50 RPM Index thix	mPas mPas	1200-1800 400-600 2,5-3,5
Geltime at 25°C using 100g resin 1g Cobalt Octoate (3%) 2g Butanox LPT	minutes	20-30
Stability from date of manufacture when stored in accordance with storage recommendations.	months	6

#### Cured Cast Resin:\*

Barcol Hardness **		45
Tensile Strength**	MPa	80
Tensile Modulus**	GPa	3.4
Elongation at break**	%	4-5
HDT***	°C	95-100
Water Absorption** : 7 days	mg	35

\* Variants available, on request, designed for improved fabrication

\*\* Curing Schedule: 24 hrs at 20°C followed by 3hrs at 80°C

\*\*\* Curing Schedule: 24 hrs at 20°C followed by 5 hrs at 80°C and then 3hrs at 120°C

### Post Curing

Satisfactory laminates for many applications can be made from **Crystic VE676T** by curing at ambient temperature (20°C). For optimum properties laminates should be post cured before being put into service. The laminate should be allowed to cure for 24 hours at 20°C and then be oven cured for a minimum of 3 hours at 80°C; the time will be dependent upon the thickness of the laminate. Post curing at 100°C is advisable for high operating temperatures.

## Chemical Resistance

**Crystic VE 676T** has excellent chemical resistance to a wide range of substances (acids, alkalis, oxidising agents) at room and elevated temperatures.

## Storage

**Crystic VE676T** should be stored between 5°C and 25°C in the original, unopened container in a dry, well ventilated place. Protect from freezing and direct sunlight. Avoid contact with oxidising agents. If stored outside of these recommendations, shelf life will be significantly reduced

## Packaging

**Crystic VE676T** is supplied in 200 kg drums, 1000 kg containers or in bulk by road tanker.

## Health and safety

Please refer to the specific MSDS of the product

Version Crystic VE676T\_resin\_EN\_Sep 18

Group tech class R50339

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