



Introduction

Crystic® 805 resin is a non-thixotropic non-accelerated polyester resin with added UV absorbers.

It contains a proportion of raw materials which are bio-derived in origin and from sustainable sources.

Features and benefits

Crystic® 805 resin exhibits excellent resistance to hydrolysis and to yellowing from UV light. It also has an excellent balance of flexural and heat resistance properties.

Applications

Crystic® 805 resin is able to accept high filler loadings and has been developed to produce composite stone and artificial marble.

Crystic® 805 resin is also suitable for the manufacture of glass reinforced profiles produced through pultrusion.

Physical data

The following tables give typical properties of Crystic® 805 resin when tested in accordance with SB, BS EN or BS EN ISO test methods.

Property	Unit	Liquid resin
Viscosity at 25°C	Poise	3.9 – 4.7
Specific Gravity at 25°C		1.08
Stability at 20°C	Months	9
Volatile content	%	35 - 40

Property	Unit	Fully cured* resin
Barcol hardness		36
Deflection temperature under load* (1.80 MPa)	°C	72
Elongation at break	%	4.8%
Tensile strength	MPa	88
Tensile modulus	MPa	2700
Flexural modulus		

Flexural stress

*Curing Schedule - 24 hours at 20°C, 3 hours at 80°C.



Recommended testing

It is recommended that customers test Crystic® 805 resin before use under their own conditions of application to ensure the required surface finish is achieved.

Formulation

Crystic® 805 resin should be allowed to attain workshop temperature (18 - 20°C) before use. Crystic® 805 resin requires only the addition of catalyst to start the curing reaction. The recommended catalyst is medium reactivity MEKP which should be added at 2% by weight with a low shear mechanical stirrer where possible. (Please consult our Technical Support Department if other catalysts are to be used).

Additives

Crystic® 805 resin is supplied ready for use. The addition of any additives may adversely affect the performance of this product and therefore should not be used.

Storage

Crystic® 805 resin should be stored in its original container and out of direct sunlight. It is recommended that the storage temperature be less than 20°C where practical, but should not exceed 30°C. Ideally, containers should be opened only immediately prior to use.

Packaging

Crystic® 805 resin is supplied in 25Kg containers, 225kg drums or 1100kg containers.

Health and Safety

Please see separate Material Safety Data Sheet.

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