CRYSTIC® Resin 806PA

Technical Data Sheet



Introduction

Crystic® resin 806PA is a non-thixotropic, accelerated polyester resin.

It contains up to 30% of raw materials which are bio-derived in origin or from sustainable sources.

Features and benefits

Crystic® resin 806PA has been developed to offer our customer a partially bio derived resin to be used in infusion.

Applications

Crystic® resin 806PA exhibits excellent resistance to hydrolysis. It also has an excellent balance of flexural and heat resistance properties.

Physical data - uncured

The following tables give typical properties of Crystic® resin 806PA when tested in accordance with SB, BS EN or BS EN ISO test methods.

Property	Unit	Liquid resin
Viscosity at 25ºC		1.3
Specific Gravity at 25ºC		1.1
Stability at 20ºC	Months	6
Geltime at 25ºC Using 1.5% Butanox M50 (or Other Equivalent Catalyst)	Minutes	90

Physical data - cured

Property	Unit	Fully cured* resin
Barcol hardness		36
Water absorption 24 hrs at 23ºC	mg	13
Deflection temperature under load† (1.80 MPa)	ºC	57
Elongation at break	%	6%
Tensile strength	MPa	49
Tensile modulus	MPa	2600

*Curing Schedule - 24 hours at 20°C, 16 hours at 40°C.
†Curing Schedule - 24 hours at 20°C, 5 hours at 80°C, 3 hours at 120°C.

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Recommended testing

It is recommended that customers test Crystic® resin 806PA before use under their own conditions of application to ensure the required surface finish is achieved.

Formulation

Crystic® resin 806PA should be allowed to attain workshop temperature (18 - 20°C) before use. Crystic® resin 806PA requires only the addition of catalyst to start the curing reaction. The recommended catalyst is medium reactivity MEKP 50% which should be added at 2% by weight into the resin with a low shear mechanical stirrer where possible. (Please consult our Technical Support Department if other catalysts are to be used).

Additives

Crystic® resin 806PA 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® resin 806PA 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® resin 806PA is supplied in 25Kg containers, 225kg drums or 1100kg containers.

Health and Safety

Please see separate Material Safety Data Sheet.

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