

NORESTER 172-30

Product description

NORESTER 172-30 is an isophthalic DCPD resin specially designed for injection and infusion. It is clear, non-thixotropic and non-pre-accelerated. It contains a colour change mechanism to indicate the state of cure. This low viscosity resin has good fibre wetting and impregnation properties. This resin has a good chemical quality and a good ageing resistance.

Certificates

Lloyd's	Lloyd's Register	LR2160168ALP-02/2021
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Physical Properties of Uncured Resin

Brookfield Viscosity at 23°C-sp2-cPoise- 50rpm	ISO 2555	180-220
Specific gravity at 23°C	ICON012	1.08-1.12
Solid Content - %	ICON003	54-56
Storage stability 20°C- months	-	6

Reactivity

Gel time at 23°C 0.1% Cobalt 12 % +1.5% MEKP (M50) on 100g - minutes	ICON002	30
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Versions available

Thixotropic & Accelerated	TA
Thixotropic & Accelerated & High Viscosity	TA HV

Mechanical properties of cured resin*

Flexural Strength	ISO 178	123 MPa
Tensile Strength	ISO 527	65 MPa
Elongation at Break	ISO 527	3.8 %
Heat Distortion Temperature -HDT	ISO 75-2	76°C
Barcol Hardness	ASTM 2583	45-50

* To catalyse at 1.5% of MEKP- post cured 3h@80°C

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Application & Specificities

Recommendations before use	Application temperature between 18-25°C. Homogenize the product.
Recommendations during use	1,25 - 2,5% Methyl Ethyl Ketone Peroxide (MEKP). Mix the catalyst well. Never mix accelerator and catalyst together.
Lamination restart	Ensure that the level of adhesion achieved meets the end use of the part. If the time between two laminates exceeds 24hours, we recommend sanding the surface slightly to ensure a good interlaminar adhesion.
Post Curing	24h at room temperature (16-20°C) then 16h at 40°C for optimal properties.

Storage

<p>The product must be stored in its original closed packaging at a temperature between 15°C and 25°C, away from direct sunlight.</p> <p>It is the responsibility of the customer to ensure that the product is used in good conditions before the use-by date mentioned on the keg.</p> <p>This product is subject to the Highly Flammable Liquids Regulations.</p> <p>Please follow the MSDS of this product in order to make sure the operators wear the appropriate personal protective equipment during usage of the product.</p>
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All these results were obtained from our internal laboratory tests. Results given in this document are indicative and, to the best of our knowledge, are reliable but cannot be taken as liability. We cannot endorse any responsibility for parts manufactured with this product.