

Technical Data Sheet

Rev :03

Date: 29/04/21

Type	Unsaturated polyester resin based on Isophthalic acid
Description	C'POL 333S is a medium reactivity, medium viscosity modified Isophthalic resin specially designed to achieve good fire-retardant properties and high heat distortion temperature. Laminates made with C'POL-333 S possess excellent resistance to mild corrosive chemicals including water at ambient temperature, while at the same time exhibiting flame retardant properties.

Specifications

Property	Value	Unit of Measurement
Appearance	Filled white Liquid	
Viscosity @ 25°C	600 ± 100	mPa.s
Volatile content	32 ± 03	%
Gel Time @ 25°C (with 100 gram resin, 1.0ml of Acc. A, and 1.5ml of Cat. C)	12 ± 03	minutes

Note

1. These properties are tested for liquid resin in accordance with the methods described in IS 6746 - 1994
2. Acc. A - Solution of 3% Cobalt as Cobalt Octoate
Cat. C - Solution of 50% MEKP (9% Active Oxygen)
3. Catalyst should never be brought in direct contact with accelerator. Explosion is possible.

Mechanical Properties (cast resin)

Property	Value (SI)	Unit of Measurement	Test Method
Tensile Strength	60	MPa	ISO 527
Tensile Modulus	3450	MPa	ISO 527
Elongation at Break	2 -3	%	ISO 527
Flexural Strength	90	MPa	ISO 178
Flexural Modulus	3700	MPa	ISO 178
Heat Distortion Temperature	95	°C	ISO 75
Barcol Hardness	40		EN 59

Cast cured for 24 hrs. At room temperature followed by 4 hrs. At 110 °C

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Applications and Use	C'POL 333S is specially designed for fire retardant properties.
Storage	Store below 25 °C & low humidity in securely closed containers. Exposure of containers to direct sunlight should be avoided at all cost. If proper storage facility is not available, please consume the material as soon as it is delivered. Storage at high temperatures will adversely affect the shelf life.
Shelf life	If stored at suggested conditions the material is guaranteed 2 months shelf life from the date of manufacturing. Opening the container to allow fresh air and rolling the can help in improving the shelf life.
Safety	Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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