



# ECMALON 8821

## 200-220 kgs

### Packaging

ECMALON Polyester Resin is packed in Epoxy lined drums of standard size containing 200/220 kgs in net weight.

### Shelf Life

ECMALON Polyester Resin 8821 will remain stable for about 3 mnts if stored in the dark & at temperatures below 25°C. Their stability however deteriorates markedly at higher temperatures, especially when they are directly exposed to sunlight. Hence, they should be kept in a cool, dark place. It is advisable to finish it within three months. Inventory levels should be kept to a reasonable minimum with first-in-first-out stock rotation.

### Standards

TYPE: I rating as per I.S.6746: 1994

## ISOPHTHALIC BOAT GRADE RESIN

### Description

Ecmalon 8821 is isophthalic acid Unsaturated Polyester Resins with good resistance to blistering on contact with water. The resin is recommended for boat building. It has been approved by IRS. (Indian Register of Shipping).

Ecmalon 8821 is of medium viscosity suited for wet lay ups for moulding applications.

### Typical Properties Of Liquid Resin

Liquid resin properties are tested in accordance with the procedures described in IS6746-1994 and the values can vary within the tolerances mentioned therein.

### Physical Properties

Appearance	Clear pale yellow to yellow liquid
Viscosity @ 25°C	1200+300 cps
Specific Gravity @ 27°C	1.1+0.02
Acid Value (mgKOH/Gm)	16+4
Monomer content (%)	33+3
SPI Gel Time @ 25°C Resin – 100 Gm; BPO Powder -1.4 Gms	12+4
Packing Instruction	When the temperature of the Resin is below 50°C; pack the material as per the instructions



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### Storage And Handling

**KEEP  
DRY**



The materials must be stored in a moisture free, cool and dry environment, away from any direct sun-light.

**STACK  
HEIGHT**



Please avoid stacking of the containers.

Handle the product(s) very carefully during transportation.

### Safety Precautions



Wear all PPE's at the time of the application like safety boots, goggles, hand gloves and masks. Avoid contact with skin and eyes. Any direct skin contact with the products should be washed off thoroughly with soap and water.

### CAST RESIN PROPERTIES

Specimens are fabricated from cast sheets cured at R.T for 24hrs and 4h @ 90°C.

Property	Unit	Typical Value	Test Method
Hardness	Barcol	35 min	IS 6746-'94
Flexural Strength (kg/cm <sup>2</sup> )	Mpa	80 min	ISO 178
Tensile Strength (kg/cm <sup>2</sup> )	Mpa	45 min	ISO 527
Heat Distortion Temperature	°C	75 °c min	ISO 75
Water absorption, 28days	mgs	80 max	ISO 62/1980
Flexural Modulus	Mpa	3000 min	ISO 527

### LAMIANATE:

Property	Unit	Typical Value	Test Method
Glass Content	%	85	IS 3268/3039
Flexural Strength (kg/cm <sup>2</sup> )	Mpa	6350	ISO 3268/3039
Tensile Strength (kg/cm <sup>2</sup> )	Mpa	152	ISO 178
Flexural Modulus	Mpa	5206	ISO 178
Tensile Modulus	%	36	ISO 172

The above values are provided as general information and not to be construed as specification. Anyhow, they do not represent the values obtainable when used with reinforcements. Ultimate properties of FRP are dependent upon type and content of reinforcement and design and quality of construction of FRP.

### Storage & Handling

The containers are recommended to be stored in cool and dry conditions for best result. Exposure to sources of heat and sunlight are to be avoided. After drawing the required resin, the container is to be securely closed, left over quantities after usage are not to be transferred back to the container.

The resin contains a volatile monomer with a flash point at 32°C and is of moderate fire hazard. Due precautions to be observed while handling to avoid accidents.

Accelerator and Catalyst are not to be mixed together in the resin. Catalyst is added after thoroughly dispersing the accelerator. All direct contacts of accelerator and catalyst are strictly prohibited as they can lead to explosion.



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### Quality Policy

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ECMAS is committed to enhance Customer Satisfaction; Conservation of Environment; Adherence to Safe Occupational Health & Safety Practices through its Operations and practices for continual improvement of the established IMS by carrying regular internal audits and complying with applicable Legal and other Requirements.

NOTE: information in this technical data sheet is to the best of our knowledge true and accurate. However, such conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

### Warranty

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The above information is furnished based on the data generated at our works for the benefit of making proper selection of resin. No liability is accepted on the information provided.



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