



ECMALON 4446

**200-220
kgs**

Packaging

ECMALON Polyester resin is packed in Epoxy lined drums of standard size containing 200/225 kgs in net weight.

Shelf Life

ECMALON Polyester Resin 4446 will remain stable for about 3 mnts if stored in the dark and 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.

GENERAL PURPOSE ORTHOPHTHALIC FR RESIN

Description

ECMALON 4446 is an Orthophthalic based polyester laminating resin with self - Extinguishing characteristics. Grade Ecmalon 4446 to produce general fire-retardant mouldings complying with the requirement of 'VERY LOW FLAMMABILITY' TYPE: I rating as per I.S.6746: 1994. This resin is suited for hand lay-up/ Infusion and filament winding applications.

Typical Properties Of Liquid Resin

Liquid ECMALON 4446 Polyester resin has the following Characteristics: ECMALON 4426 is Curable with free radical initiating catalyst at room temperature. Cobalt Accelerator and MEKP Catalyst are particularly suitable for curing at room temperature.

Physical Properties

Appearance	Slightly thick cream to white colored
	Opaque liquid
Viscosity @ 25°C	900+200cps
Specific Gravity @ 27°C	1.21+0.01
Acid Value (mgKOH/Gm)	23+6
Monomer Content (%)	32+3
Gel Time @ 25°C	18+8
Resin 100 Gm; Cobalt Accelerator 1.5 ml; MEKP Catalyst – 1.5 ml	



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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.

Physical Properties

Flammability Test	Type 1
Packing Instruction	When the temperature of the Resin is below 50°C; pack the material as per the instructions

The quantities of Catalyst and Accelerator applied can be adjusted for a shorter or longer gel time by increasing or decreasing Catalyst, Accelerator or both.

CAUTION: Accelerator must be completely mixed before catalyst is added in order to avoid a direct blending which will casuse an EXPLOSION.

Typical Properties Of Cured Ecmalon 4426 Resin

Specimen cured for 24 hours at room temperature followed by post-curing for 4hours @ 90°C

Property	Unit	Typical Value	Test Method
Tensile Strength (kg/cm2)	Mpa	45 min	ISO 527
Flexural Strength (kg/cm2)	Mpa	80 min	ISO 178
Heat deflection Temp	°C	60 min	ISO 75
Water absorption [7days]	mgs	70 max	ISO 62/1980
Hardness	Barcol	42 min	ISO 6746-'94

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.

Use of copper, zinc and iron metals in handling can adversely affect the bench life and cure of resin.

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.



Quality Policy

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

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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