



ECMALON 4413PA IF

200 kgs

Packaging

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

Shelf Life

ECMALON 4413PA IF white resin 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.

ORTHOPHTHALIC INFUSION RESIN WITH PRE-ACCELERATED

Description

ECMALON 4413PA (IF) is an Orthophthalic based Infusion polyester resin with self-extinguishing characteristics. This resin is suited for infusion applications ECMALON 4413PA (IF) is Curable with free radical initiating catalyst at room temperature. Cobalt Accelerator is not necessary for pre accelerator resin and MEKP Catalyst Are particularly suitable for curing at room temperature.

Typical Properties Of Liquid Resin

Liquid ECMALON 4413PA IF polyester resin has the following Characteristics:

Physical Properties

Appearance	Light Pink to Pink color clear liquid
Viscosity @ 25°C (Brookfield Viscometer)	170±30
Density / Specific Gravity @ 27 Deg C	1.1±0.05
Acid Value (mgKOH/Gm)	20±4
Solid content (%)	58±3
Gel Time @ 30°C Resin – 100 Gm; MEKP Catalyst – 1.5 ml	55±10
Peak time (Min)	70±20
Peak Exothermic Temp°C	Minimum 120 & Maximum 140



address ECMAS RESINS PRIVATE LIMITED
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fax 040-24360023
website www.ecmas.in

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

Packing Instruction	When the temperature of the Resin is below 45°C;
	pack the material as per the instructions

TYPICAL PROPERTIES OF CURED LAMINATE ECMALON 4413PA (IF) RESIN

(Mechanical properties)

Property	Unit	Typical Value	Test Method
Tensile Strength (kg/cm ²)	Mpa	45 min	ISO 527
Elongation at break	%	1.5 min	ISO 527
Flexural Strength	Mpa	75 min	ISO 178
Heat deflection Temp	°C	> 60	ISO 178
Under load (HDT)			ISO 75
Tensile Modulus	Mpa	3500 min	
Hardness	Barcol	> 30	ISO 527
Volume of shrinkage	%	6 + 2	IS6746-'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.

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.



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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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