

ICOM MC RESIN GR 9000-10 TA

CHARACTERISTICS

ICOM MC Resin GR 9000-10 TA is a medium reactivity, low viscosity, pre-accelerated, thixotropic, orthophthalic polyester resin based on orthophthalic acid and standard glycols containing fading dye indicator.

ICOM MC Resin GR 9000-10 TA is designed to have:

- Excellent surface finish
- Minimal Sagging
- Easier Vertical surface applications
- Faster curing time with low exotherm even with thick laminates
- Fading dye indicator for catalyst addition

USE

ICOM MC Resin GR 9000-10 TA is a versatile orthophthalate polyester suitable for many applications primarily for molding FRP components. It is suitable for making thick FRP laminates having vertical surfaces.

PROCESSING

ICOM MC Resin GR 9000-10 TA is ideally suited for spray-up application and designed to use with mineral fillers. A suitable laminate thickness of 2 – 6 mm at a time is recommended to achieve the desired results.

Component made from ICOM MC Resin GR 9000-10 TA exhibit excellent surface finish along with very good hydrolytic stability, improved mechanical strength and electrical insulation properties.

APPROVAL

Lloyd's Register, Certificate No. MATS/4648/1

ICOM MC Resin GR 9000-10 TA is approved by Lloyd's Register. The product must be used in accordance with the manufacturer's instructions.

PHYSICAL PROPERTIES As supplied	VALUE
Appearance	Hazy Light Blue Color Liquid
Specific Gravity at 25 °C	1.08 ± 0.01
Viscosity at 25 °C, Brookfield LVT, Sp. #2, 20 rpm	800 ± 100
Thixotropic Index (2/20)	>3
Acid Value mg KOH/g	< 30
Volatile Content (w/w) %	43 ± 3

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CURING BEHAVIOUR	VALUE
Gel time, minutes at 25 °C with 100 g resin and 1% MEKP (Peroxan ME 50 L)	25 - 35
Time to peak temp., minutes	45 - 60
Peak Exotherm Temperature, °C	> 110
Gel time, minutes at 25 °C with 100 g resin and 1,5% MEKP (Peroxan ME 50 L)	20 - 30
Time to peak temp., minutes	40 - 60
Peak Exotherm Temperature, °C	140 - 170

PROPERTIES OF CURED ICOM MC Resin GR 9000-10 TA	VALUE
Specific Gravity at 25 °C	1.21
Tensile Strength, MPa	65
Tensile Modulus, MPa	3500
Elongation at Break, %	3
Flexural Strength, MPa	105
Flexural Modulus, MPa	3200
Heat Deflection Temperature, °C Fully cured	65
Barcol Hardness	40

(Test methods: IS 6746-1994, ASTM and BS where IS not available)

PACKAGING

ICOM MC Resin GR 9000-10 TA is supplied in non-returnable M.S. drums containing 220 kg or returnable IBC's containing 1.0 MT and ISO Tanks containing ~20 MT net.

STORAGE AND HANDLING

ICOM MC Resin GR 9000-10 TA should be stored in a cool and dry place away from sunlight, preferably below 25 °C. Under these conditions the shelf life is 5 months. The storage stability could be further improved by aerating the resin stored in barrels at an interval of about 14 days.

ICOM MC Resin GR 9000-10 TA has a flash point of 34 °C and is classified as flammable. Containers could be kept in a cool and ventilated place away from sunlight and sources of ignition. "No smoking" rules should be strictly enforced. In case of fire, use dry chemical, foam, carbon dioxide or water spray to extinguish the flame. Spillages may be absorbed onto sand or earth and shoveled off and disposed according to local disposal regulations.

Skin contact and vapor inhalation should be avoided during molding because of the presence of styrene monomer. In case of irritation in the eye or skin, wash with copious amount of water. In extreme case, seek immediate medical advice. The molding area should be sufficiently ventilated for reducing the vapor levels in the air while compounding and molding.

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All information is given, based upon our best knowledge, but without liability to us. Data has been obtained by laboratory experiments made by our supplier. Since the condition under which the product is consumed is outside of our control, the product should be tested before use.