



Mechemco industries

Commitment to Quality and Consistency

Product Data Sheet

MECHSTER™ 9000W

(Orthophthalate Polyester Resin for Filament Winding)

Mechster™ designates a variety of unsaturated polyester resins synthesized at **Mechemco Industries**. These resins are specially engineered to meet the most diverse needs of fibreglass reinforced plastic moulding industry. Our R & D is geared to tailor **Mechster™ Resins** for the customers' most specific end application. In fact we take pride in suitably formulating the resin to improve your production efficiency as also the field performance of the FRP product.

Mechster™ 9000W is a medium reactivity, orthophthalate polyester resin for filament winding application

Mechster™ 9000W offers faster wetting of fibers and easy air release thus ensuring void free and compact laminate.

Laminates from **Mechster™ 9000W** exhibit excellent surface finish which is smooth and glossy.

Physical Properties of Mechster™ 9000W

Appearance	: Clear Pale Yellow Liquid
Specific Gravity @25°C	: 1.10 ± 0.01
Viscosity @ 25°C by Brookfield Viscometer, cps	: 450 ± 50
Acid Value, mg KOH/g	: 20 ± 2
Volatile Content, (w/w) %	: 38 ± 2
Geltime, minutes @25°C with 100 gm Resin	
0.5% v/w A103* + 2.0% v/w C109#	: 10-12
Peak Exotherm Temperature, °C	: 200 ± 10

Properties of Cured Mechster™ 9000W (Unfilled Cast)

Tensile Strength, MPa	: 65
Tensile Modulus, MPa	: 3200
Elongation at Break, %	: 3.0
Flexural Strength, MPa	: 110
Flexural Modulus, MPa	: 3500
Heat Deflection Temperature, °C	: 70
Barcol Hardness	: 45

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

* A 103: Cobalt Octoate (3% Cobalt)
C109: MEKP (9% A.O.)

Uses

Mechster™ 9000W is suitable for filament winding process for manufacturing of pipes, tubes, tanks etc. The finished products have very good rigidity and toughness for variety of applications.

Packing

Mechster™ 9000W is supplied in non returnable M.S. drums containing 225 kg net. or returnable IBCs containing 1.0 MT net.

Storage and Handling

Mechster™ 9000W should be stored in a cool and dry place away from sunlight, preferably below 25°C. Under these conditions, the shelf life is 3 months. The storage stability could be further improved by aerating the resin stored in barrels at an interval of about a fortnight.

Skin contact and vapor inhalation should be avoided during moulding 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 moulding area should be sufficiently ventilated for reducing the vapour levels in the air while compounding and moulding.

The above information and recommendation are based on our extensive experience in the field and is provided only as a general guidance for application of our product. The user should verify the suitability of our product for their own specific applications. We do not warrant or assume any liability for the information provided.

Mechster™ is the Registered Trade Mark of Mechemco Industries

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