

# MECHSTER™ 1620(O)G

(Very Low Flammability Orthophthalate Gelcoat for Open Mould Application)

**Mechster™** designates a variety of unsaturated polyester resins synthesized at *Mechemco Resins Pvt. Ltd.* 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™ 1620(O)G** is a medium reactivity, unsaturated Orthophthalate polyester gelcoat specially designed for components to comply with the fire retardant characteristics as per IS 6746:1994 Type I. This gelcoat while exhibiting low flammability, retains physical and mechanical and electrical properties of unsaturated polyester resins.

The **Mechster™ 1620(O)G** is designed to have,

- Excellent surface finish
- Faster curing time
- Easier Vertical surface applications
- Minimal Sagging

## Physical Properties

Appearance	: Opaque white viscous liquid
Specific Gravity @ 30°C	: 1.25 ± 0.02
Viscosity @ 30°C by Brookfield Viscometer, cP	: 6000 ± 500
RVT Spindle No. 4 at 20 rpm	
Thixotropic Index (10/100)	: >4.5
Volatile Content (w/w) %	: 33 ± 3

## Curing Behaviour

Geltime, minutes @ 30°C with 1.0% A-103 <sup>1</sup> and 1.5% v/w C108 <sup>2</sup>	: 5 - 10
Peak Exotherm Temperature°C	: >150
Time to Peak Temperature, Minutes	: 10 - 20

<sup>1</sup>A103 : Cobalt Octoate Solution in Styrene (3% Cobalt Content)

<sup>2</sup>C108 : Methyl Ethyl Ketone Peroxide Containing 8% Active Oxygen

## Uses

**Mechster™ 1620(O)G** is recommended for use as a Gel Coat for Exterior as well as Interior application requiring fire retardant characteristics. This gel coat is suitable for Brushable method of application – however, Sprayable version can also be supplied. Laminates made with **Mechster™ 1620(O)G** gel coat and **Mechster™ 1620(O)** laminating resin passes the Vertical Burning Rate Test as per IS 15061:2002

## Packing

**Mechster™ 1620(O)G** is supplied in non returnable Open Top MS Drums containing 50 kg net

## Storage & Handling Precautions

**Mechster™ 1620(O)G** should be stored in a cool dry place away from sunlight, preferably below 25°C. Under these conditions, the shelf life is well over 2 months. Material must be stirred well before using.

**Mechster™ 1620(O)G** has a flash point of 34°C and is classified as flammable. Containers should 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 shovelled off and disposed according to local disposal regulations.

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.

*Our information regarding our products, equipments and processes is based on extensive research and experience in the field of Applied Engineering and is provided as a general guidance in the application of our product. The user should verify the suitability of our product for their end use. We do not warrant or assume any liability for the information provided.*