

Provisional Product Data Sheet

# Mechster™ 3510G

(Pre-accelerated NPG Orthophthalate Clear Gelcoat)

**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™ 3510G** is a UV stabilized, pre-accelerated neutral color clear gelcoat based on NPG Orthophthalate Polyester chemistry.

**Mechster™ 3510G** is designed to have :

- Neutral color upon curing
- Excellent surface finish
- Faster curing time
- Easier vertical surface applications with minimum Sagging

Component made from **Mechster™ 3510G** exhibit excellent surface finish which is smooth and glossy. This gel coat has excellent hydrolytic stability, improved mechanical strength and electrical insulation properties.

### Physical Properties

Appearance	: Pink Hazy Liquid
Specific Gravity @25°C	: 1.10 ± 0.01
Viscosity @ 25°C by	
RVT, Sp. No. 5, 20 rpm, cP	: 3500 ± 300
Thixotropic Index (2/20) rpm:	> 5.5
Acid Value mg KOH/g	: 19 ± 3
Volatile Content (w/w) %	: 38 ± 3

### Curing Behaviour

Gel time, minutes @ 25°C with 2.0% Catalyst (C-109) <sup>1</sup>	: 15 ± 2
Peak Exotherm Temperature, °C	: 130 ± 10

Note:

1:C-109: Methyl Ethyl Ketone Peroxide ( 9% Active Oxygen)

### Uses

**Mechster™ 3510G** is a brushable gelcoat suitable for use along with **Mechster™ Resins** for wide variety of applications including marine applications as well as outdoor weathering. It is also suitable to mix with the Granite Effect fillers / Metal Effect fillers due to its neutral color up on curing

### Packing

**Mechster™ 3510G** is supplied in non returnable M.S. drums containing 20 kgs. net.

### Storage and Handling

**Mechster™ 3510G** has a flash point of 34°C and should be stored in a cool and dry place away from sunlight, preferably below 30°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.

TopCoat Version with MechWax™ additive is available on request

*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.*

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D 36/3, TTC Industrial Area, MIDC, Turbhe, Navi Mumbai 400 613  
Tel No.: +91-22-27682720, Fax No.: +91-22-27682721  
E-mail: mechemcoresins@vsnl.net