

# MechAdd™ LP-40PS

(Low Profile Additive Solution)

**Mechster™** designates a variety of unsaturated polyester resins manufactured by *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** and **MechAdd™ Additives** 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.

**MechAdd™ LP-40PS** is a 40% solution of Polystyrene in Styrene to be used as a Low Profile Additive (LPA) in Unsaturated Polyester Resin formulations.

**MechAdd™ LP-40PS** is designed to provide smooth shrinkage free Class A finish to the FRP part molded at high temperature.

## Liquid Resin Properties

Property	Nominal Values	Test Method*
Appearance	Clear Viscous Liquid	AM-113
Specific Gravity @25°C	0.96 ± 0.01	AM-103
Viscosity <sup>1</sup> @ 25°C, cP	400 ± 50	AM-101
Acid Value, mg KOH/g	< 2.0	-
Volatile Content, (w/w) %	60 ± 2	AM-106

## Uses

Addition of about 10% to 40% w/w addition of **MechAdd™ LP-40PS** in the reactive resins, viz., Mechster 9000R / Mechster 1110R can provide desired shrinkage control and resultant defect free smooth surface as required in Pultrusion, SMC, DMC formulations.

Always premix **MechAdd™ LP-40PS** with the resin before addition of fillers and other additives to ensure the uniform mixing.

### Note:

\* Internal Test Method, available on request

1: By Brookfield Viscometer, Sp. No.3, @ 20 rpm

## Packing

**MechAdd™ LP-40PS** is supplied in non returnable M.S. drums containing 200 kgs. net or returnable IBCs containing 1.0 MT net.

## Storage & Handling

**MechAdd™ LP-40PS** 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. Do not keep the container open for long to avoid the evaporation losses

**MechAdd™ LP-40PS** has a flash point of 32°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.

*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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