

# BMC Processing In One Vessel



## Glass Reinforced Polyesters (BMC)

Mix includes:

- Catalyst
- Chopped Strand Fiberglass
- Pigments
- Fillers
- Polyester Resin

## Advantages

- Short Mix Cycles
- Minimum Glass Degradation
- Higher Physical Property of Molded Parts
- Lower Capital Cost Than Double Arm Mixers

Compression molding compounds of fiberglass reinforced Polyester resins can be quickly prepared in the Littleford Mixer.

The Littleford Intermediate Intensity Mixer can produce a complete, quality molding compound of fiberglass reinforced Polyester resins in very little time without filamentizing the glass fibers.

Fillers, pigments and catalysts can be homogeneously combined with the viscous Polyester resins in very short mix cycles without the need for premixing the resins in a separate piece of equipment.

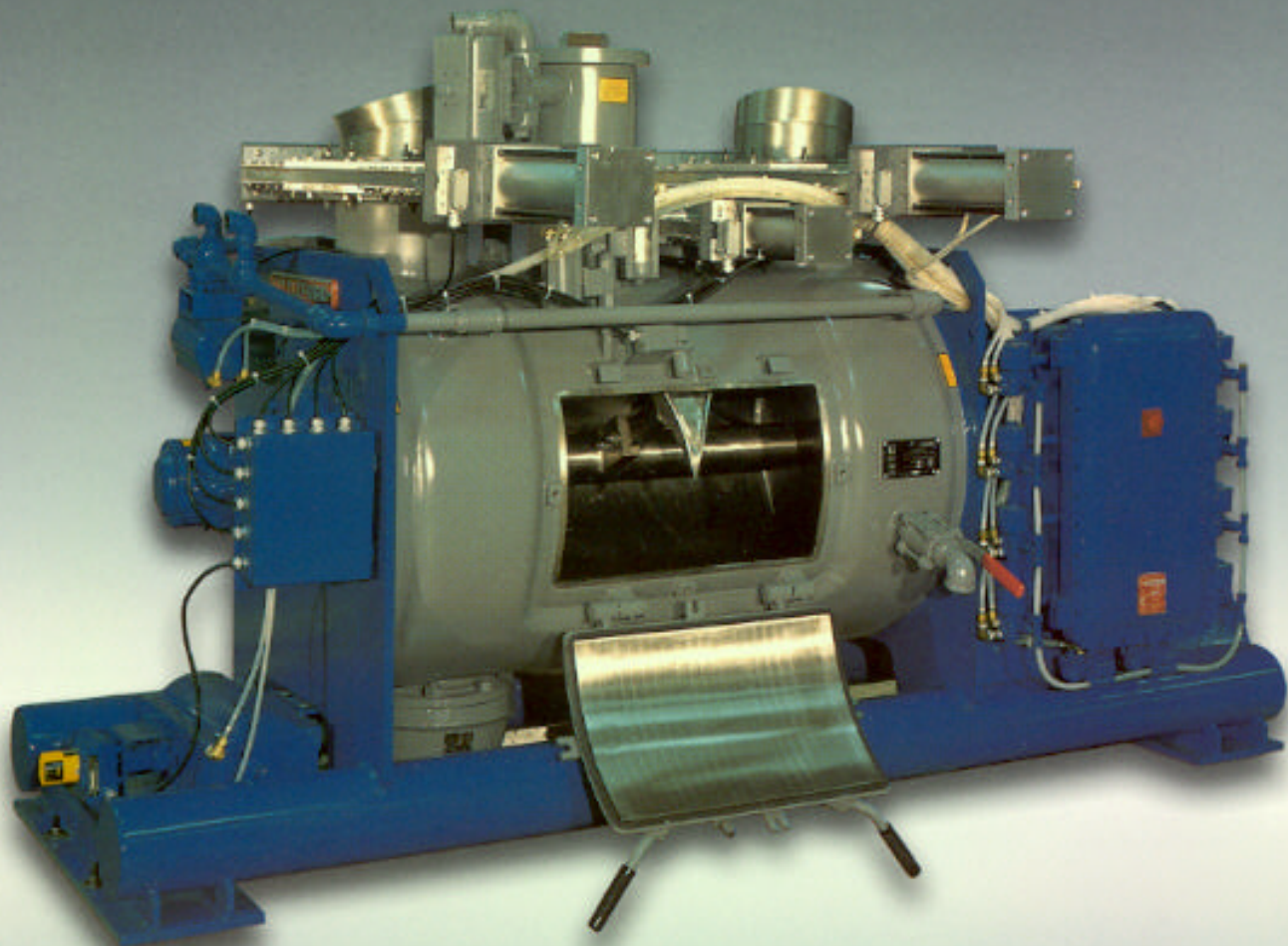
Mixing one or two minutes after the addition of glass fibers causes all of the fiber bundles to be opened and uniformly coated with little or no fiber degradation.

In addition to a reduction in process time and equipment, the physical properties of the final molded part are generally superior to those of parts, produced by other methods.

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# SMC Processing



## Sheet Molding Compounds (SMC)

Mix includes:

- Catalyst
- Pigments
- Fillers
- Polyester Resin

### Advantages:

- Short Mix Cycles
- Complete and Rapid Dispersion
- Easily Automated
- No Heat Generation

Sheet molding compounds, although of various viscosities, are generally in the form of a paste. The Littleford Intermediate Intensity Mixer rapidly disperses large quantities of fillers, pigments and other required additives into liquid resins to produce a homogeneous sheet molding compound.

The general mixing procedure is to charge the liquid resins into the static mixers. After starting the mixer, the catalyst and dispersing agent are added, followed by the addition of the filler, pigment and other ingredients. Throughout the process, exact batch temperature is controlled by utilizing a uniform flow heating/cooling jacket.

The mixer can be equipped for the dynamic removal of all gases from the product. This is accomplished by mixing within a vacuum environment while simultaneously deaerating. This process substantially reduces the mix volume, resulting in a higher final bulk density. Vacuum deaeration causes no appreciable increase in the mixing time required.

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