

# Scale Up and Manufacturing Services



## Products You'll be Proud to Put Your Name On

Manufacturing partnerships are built on a foundation of trust that comes from knowing your outsource partner can be relied upon to deliver high-quality solutions on time and on budget. With over 30 years of experience manufacturing oligomers and resins, intermediate coatings, and other chemical materials, Bomar has the technical background and expertise needed for successful scale up and manufacturing partnerships. Our technical and senior production staff work directly with companies to evaluate projects and provide cost-efficient manufacturing solutions. Each manufacturing partnership is unique and flexible, allowing short- to long-term product manufacturing.

When partnering with Bomar, you can count on our expertise to scale up lab formulations and provide guidance to fully commercialize your products. We provide a cooperative and open dialogue, as well as mutual confidentiality agreements to assure a quick lab to scale-up production cycle. We have the capabilities to address any process challenge, the capacity to handle any size job, and the competency to deliver consistent product quality that you'll be proud to put your name on.

- Over 30 years of experience providing scale up and manufacturing services
- Research and QC/QA labs with highly trained employees to support production
- High quality, specialized equipment to ensure the highest quality products
- ISO 9001 & 14001 registered facilities
- Experience in specialty materials such as 3D printing resins and nail gel coatings
- Flexible agreements to ensure the most efficient process

# WHAT WE DO

## Reaction Synthesis Capabilities

Specialize in urethane acrylate oligomers and Michael addition chemistry

- 316 Stainless steel reactors with 10, 55, 500, 1,000, and 1,500 gallon capacity
- Batch size capability from 18 kg to 5,100 kg
- Capable to 15–20 psi pressure
- Vacuum pressure down to 25 in Hg
- Dry air feeds into reactors via sparge or blanket
- Temperature control from 20°C–140°C
- Final viscosities up to 300,000 cP at temperature
- 100% solids or solvent-borne products
- Sold by the kilogram, standard packaging options include 18 kg pails, 204 kg drums or 1,020 kg totes (IBCs)
- Custom labeling and SDS support

## Specialty Materials: 3D Printing Resins and Nail Gel Coatings

Our technical experts have extensive experience designing custom oligomers for the 3D printing and nail gel coating industries. We offer assistance through the whole design and manufacturing process, from formulation to manufacturing to packaging. Our production team members can down pack materials in a variety of containers using customers' custom labels and also ensure that these materials are shipped in compliance with regulatory guidelines. Contact our Application Engineering team today to discuss your application.

## Formulation Blending Capabilities

Specialize in UV nail gel blending and 3D printing resins

- Light and moisture control capabilities
- Cold storage and shipping
- Final packaging options include 3 mL syringes, 1 L bottles, pails, drums, or other custom options
- Vacuum pressure down to 25 in Hg
- De-bubbling capabilities via vacuum in closed-head mixer or by 3-roll milling
- Custom labeling and SDS support

### Newtonian formulations

- Batch size capability from 2 - 5,100 kg
- Temperature control from 20°C–140°C
- Range of vessel options including planetary mixer and low shear vessels

### Thixotropic formulations

- Open head mixer capabilities from 2 - 180 kg for thixotropic fluids up to 150,000
- Temperature control from 20°C–80°C
- Closed head mixer with planetary and dispersion blade



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