

Compounding Solutions is a leading manufacturer, specialized in medical compounds, color concentrates, and additive concentrates. The company was founded by Scott Neal in May 1999 with the sole purpose to become the leading medical compounder. Scott identified that the unique properties over conventional of polymer materials and their ability to be customized through compounding to exhibit better properties over conventional materials was a growing need in medical devices market. Scott's expertise with consistent and high - quality compounds to make Compounding Solutions the perfect partner for your business.

Our services

CUSTOM COMPOUNDING

We offer superior quality custom compounding of a vast range of thermoplastic polymers in a multitude of applications that most people are unaware of them in their everyday life. Let Compounding Solutions partner with your engineers from the beginning of your application to help identify the proper resin, additive, modifier, filler, and colors necessary to formulate a custom compound for your individual needs.

MEDICAL COMPOUNDING

Our medical compounding process is done in our controlled environment production area (White room) which ensures that all our medical grade polymers and compounds will be made with the highest quality and purity in mind. It is designed to minimize exposure to airborne particulates, common contaminants, and moisture. Our "White Room" is the largest production facility of its kind. To ensure a clean environment, the "White Room" includes an Air Lock with a positive pressure environment, sealed and polished concrete floors, HEPA filtered air exchange with humidity and temperature controls, and epoxy coated wall surfaces to repel dust and allow for easy cleaning of all surfaces.

TOLL COMPOUNDING

Offers toll compounding services that allow our customers to supply the raw materials and specify formulas. We then supply the compounding experience and knowledge to ensure the same top-notch quality that we expect all of our products to have. Your toll compounding products are treated with the same care and are subjected to the same rigorous quality testing as our custom compounded products.

R&D SERVICE

Our sophisticated on-site laboratory and development equipment enables us to offer the opportunity for our customers to team up with our R&D engineers and material specialists to develop and manufacture your custom material. Our R&D department is a multi-disciplinary team with bachelor and master degrees in Chemical, materials, plastics, & computer engineers.

MATERIAL TESTING

Compounding Solutions has the testing capabilities needed to ensure your products are of the highest quality and meet all required specifications. Our field and in-house laboratory testing services provide the data you need to optimize the material selections, production process and get your medical device quickly and economically. The range of available testing is very extensive, from the basics of color and moisture content to the material identification of FTIR testing and everything in between.

MATERIAL SOURCING

Reduce your lead times on commonly used items and ensure that no counterfeit materials reach your production floor. Materials that may only be available in Europe or Asia can be brought into the US at various quantities with our assistance and have a Certificate of Analysis to prove it for your quality system needs.

COLOR MATCHING

Our team has a long reputation for providing accurate color matches for a wide range of medical device applications. From existing parts to the Pantone Matching System, color concentrates to pre-colored compounds, our team of experts develops custom formulations that provide consistency and compliance.

DRY BLENDING

Compounding Solutions can provide anything from highly technical compound needs to very basic homogenization of your existing pelletized resins and powders. This can be done in quantities as little as one pound or scale up to truckloads as needed via ribbon or tumble blending. As a simple example, the blending of High-Density Polyethylene and Low-Density Polyethylene to create a Medium Density Polyethylene can be done in a dry blending method simply by effective drum mixing.

REGULATORY SUPPORT

Compounding Solutions is committed to assisting our customers in the complex world of regulation. The demand for high-quality medical plastics and compounds continues to grow as regulations become more stringent, technology advances, and new, lifesaving medical devices are developed. Our team had the knowledge and expertise to help you through the Bodies USP, FDA, EU MDR regulations. At Compounding Solutions we could design strict specifications around a given customer's product requirements.



Compounding Solutions is well known for developing custom compounds that are engineered specifically for demanding applications, perfectly tailored to hit specifications and property requirements.

Our products



MOBILIZE™

Mobilize is a thermoplastic additive designed to reduce friction on surfaces of medical devices and improve processability. Compounding Mobilize in thermoplastic formulations creates more lubricious finished product surfaces which offer an alternative to lubricious liners and multi-layer construction. Mobilize also promotes process stability and faster production rates in extrusions.

DefendRx™ Antimicrobial Masterbatches

Defend Rx masterbatches from Compounding Solutions incorporate the silver ion antimicrobial technology of leading antimicrobial provider BioCote® into thermoplastic resin carriers. Defend Rx masterbatches are intended to be dry blended at a 4wt.% let down rate with various thermoplastics to impart antimicrobial performance in finished products.



ReZilient TPEs offer material solutions for a variety of applications, ranging from low-cost general-purpose elastomers for industrial use to specialty compounds for high performance applications. Compounding Solutions invests in ongoing research and internal studies and maintains close relationships with its raw material suppliers to offer leading-edge material technologies.



Compounding Solutions' PurTone Rx color concentrates use USP Class VI and/or FDA 21 CFR part 73 subpart D components, which are exempt from batch certification for use in medical devices.



Pebax® polyether block amide (PEBA) is a plasticizer-free thermoplastic elastomer that offers remarkable processing ease. The Pebax® product range extends from a hardness of 25 shore D (74 shA) to 72 shores D. This wide range of physical and mechanical properties make Pebax® MED an excellent choice for extrusion of medical grade tubing or film applications.



Compounding Solutions is the authorized distributor of Evonik's portfolio of Care medical grade polymers to the medical device market in North America. These medical grade polymers are engineered for use in a variety of medical applications including housings, imaging devices, surgical tools, and highly sensitive devices such as catheters and balloons for cardiovascular devices.