Medical Rubber Molding Services

Multiple material options for diverse applications

MRPC offers a full range of medical rubber molding services, with expertise in polyisoprene molding. Our engineers have developed several compounds that are biocompatible with Class I, II, and III medical devices. Using our in-house materials lab, we can formulate a custom compound based on your specifications to provide the performance your products demand.

Polyisoprene's properties provide components with features and functionality that cannot be achieved with other traditional medical raw materials. Its resiliency and elasticity make it the ideal choice for applications where superior elongation and tear strength are required.

Medical rubber molded products can also be screen printed or laser etched, so parts can be easily labeled or branded. These products can also be laser machined to create small precise holes that typically could not be achieved via the molding process.

We also have the capabilities to incorporate reinforcing fabrics into our materials to provide you with additional performance properties.

MRPC has been a leader in custom medical rubber component molding for decades. We partnered with a medical device OEM to jointly manufacture a sealing component used in a minimally invasive laparoscopic device. During the development process, we prototyped three product designs coupled with five material variations to find the optimal product functionality.

After laboratory testing was complete, our customer discovered that the new design outperformed the current generation product and provided better patient outcomes. Thanks to these performance improvements, MRPC is now the go-to vendor of choice for this client and has been awarded several additional projects as a result of our ability to meet challenging medical molding requirements.

Our team of experienced engineers can create products with the following specifications.

- Prototype sample quantity: 1 to 100
- Production run quantity: Up to 1 million
- Required lead time: 3-8 weeks with expediting options
- Part volume: 0.5 gram to 0.75 pounds

Design complexity, processes, and material choice will affect the final estimate.

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