

Features / Benefits

- Elimination of adhesives and assembly
- Improved part performance and quality
- Increased bond strength of components
- Greater design freedom
- Reduced part handling & validation costs
- Product to market faster

Substrates That Bond to Silicone

- Polycarbonate
- ABS alloys
- PEEK (Non-BPA)
- Polysulfone (Non-BPA)
- PBT (Non-BPA)
- Nylon (Non-BPA)

Related Documents

- [Two-Shot Silicone-Thermoplastic Molding Design Guide](#)

Important: “Please refer to our Medical Products Disclaimer at www.medical.saint-gobain.com/resources/regulatory-and-quality/medical-product-disclaimer.

Saint-Gobain’s medical products offer covers:

- Medical Components [21 CFR 820.3(c)], intended for processing or use in the manufacture or assembly of medical devices before the finished medical device is packaged/labeled; Medical Components are intended to be included as part of the finished, packaged, and labeled device [21CFR820.3(c)].
- Finished Devices [21CFR820.3(l)] made on behalf of medical device manufacturers [21 CFR 807.20(a)(2)] under contract-manufacturing agreement. In accordance with the United States’ jurisdiction, Saint-Gobain complies with the FDA’s requirements for contract manufacturers of finished devices.”

Two-Shot Bonding Capabilities for Medical Device Manufacturers

The Two-Shot Material Difference

Two-Shot molding is an automated manufacturing process where two different materials are molded together in a single machining cycle. As an innovative pioneer in multi-component silicone molding, Saint-Gobain Medical Components has decades of experience understanding and troubleshooting material science. Our material experts can guide you to a solution that is well designed for manufacturing and will work to ensure the final part meets your print specifications. With extensive material experience comes in-depth knowledge of bondability of silicone to various thermoplastic materials.

The table below highlights the knowledge Saint-Gobain has accumulated regarding material families and the ability to bond to silicone in a two-shot process. Further details are available upon request and final part performance should be tested.

Typical Bonding Properties

		Silicone			
		Shore A 30	Shore A 40	Shore A 50	Shore A 60
Thermoplastic	Polycarbonate	+	+	+	+
	PC/ABS	N/A	+	+	N/A
	Nylon	+	+	+	+
	PEEK	N/A	+	+	N/A
	PBT	+	+	+	+
	Polysulfone	N/A	+	+	N/A

*N/A signifies not tested or no data available.

