

Two-Shot Bonding Capabilities

Two-Shot molding is an automated manufacturing process where two different materials are molded together in a single machine cycle. As an innovative pioneer in multi-component silicone molding, Saint-Gobain Medical 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 performance requirements. With our extensive material experience we also bring in-depth knowledge of the bondability of silicone to various thermoplastic materials.

The table below highlights the knowledge we have accumulated regarding material families and the ability to bond to silicone in a two-shot process.

TYPICAL BONDING PROPERTIES*				
Thermoplastic	Silicone			
	Shore A 30	Shore A 40	Shore A 50	Shore A 60
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

FEATURES/BENEFITS

- Elimination of adhesives, assembly and primers
- 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

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

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