Avery Dennison Performance Tapes

Bonding Study: Rogers Griswold™ Rubber Products

Determining the correct adhesive when bonding to rubber and other materials may be challenging, especially when seeking to provide your customer an accurate quote quickly and accurately. To help you with the adhesive selection, and the technical requirements your customer may require, Avery Dennison Performance Tapes has developed a series of adhesive bonding studies. These studies highlight the performance of our Core Series™ Portfolio products when combined with rubber and other materials from industry leading manufacturers.

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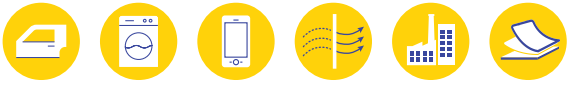
Bonding to Rogers Griswold Cellular Rubber

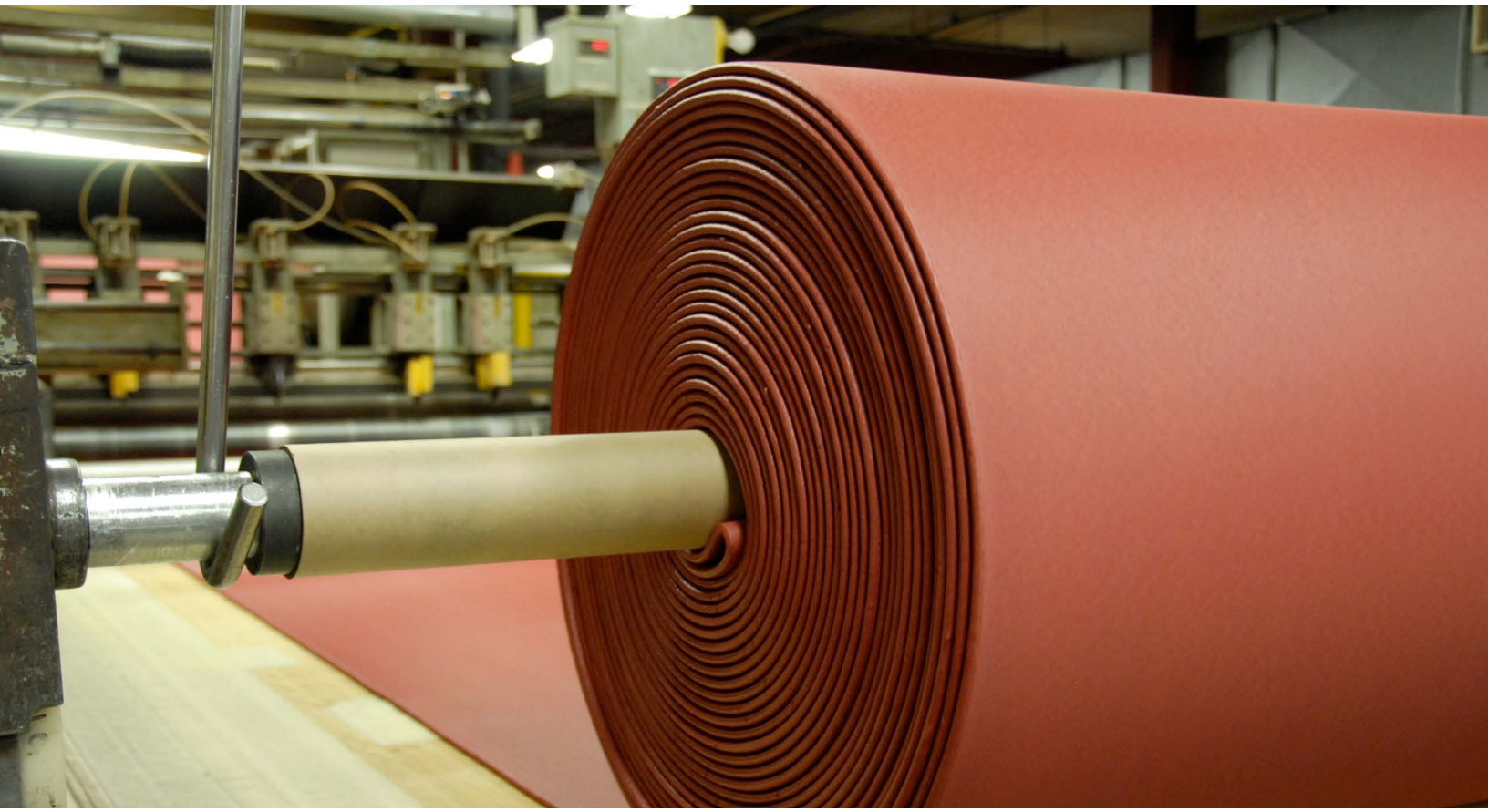
Rogers Griswold rubber products are the leading standard in engineered cellular rubber. The wide range of Griswold cellular rubber products are available in natural rubber, neoprene, EPDM, Nitrile, SBR, sponge/cork, electrostatic dissipative and custom-designed compounds. They are offered in multiple thickness and width options, along with the ability to add textile and film substrates, as well as adhesive, for diverse applications.



Rogers Griswold and Avery Dennison Adhesive Sample Preparation

Avery Dennison adhesive products were backed with a 2 mil PET film and trimmed to a one-inch width. Two sample sets were laminated to Rogers Griswold cellular rubber materials.

Set	Description
1	Laminated at room temperature. 30% compression, 20 psi, 20 fpm, 72 hr recovery after lamination.
2	Laminated at 220˚F, 30% compression, 20 psi, 20 fpm, 72 hr recovery at room temperature after lamination.



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Rogers Griswold and Avery Dennison Adhesive Sample Testing

Rubber bonding is affected by the rubber's base polymer, thickness, and cell type. Adhesion to rubber is impacted by factors such as: adhesive mass, pressure, compression, lamination speed and temperature. All samples were tested at 180° Peel Adhesion at 12 in/min. It was determined by this study that heat lamination is beneficial (220˚F).

Rogers Griswold Neoprene	Avery Dennison Adhesive Families	Avery Dennison Product Numbers	Performance with Rogers Griswold Materials
• 6110 Black Neoprene	High Shear General Purpose Rubber	FT 8345	Better
• 6130 Black Neoprene	High Performance Low VOC	FT 1149 X	Best
	LSE Modified Acrylic	FT 1943 PP	Best

Rogers Griswold Sponge Rubber	Avery Dennison Adhesive Families	Avery Dennison Product Numbers	Performance with Rogers Griswold Materials
• 9230 Red Sponge Rubber	Pure Acrylic	FT 1115	Good
• 3150 Black Sponge Rubber	Low VOC Acrylic	FBA 1118 GL	Better
	General Purpose Acrylic	FT 1126	Better
	High Shear General Purpose Rubber	FT 8345	Better
• 3110 Black Sponge Rubber	High Performance Low VOC	FT 1149 X	Best
	LSE Modified Acrylic	FT 1943 PP	Best

Rogers Griswold Backed Sponge Rubber	Avery Dennison Adhesive Families	Avery Dennison Product Numbers	Performance with Rogers Griswold Materials
• 3120 Black Sponge Rubber with F640 GRC700	General Purpose Acrylic	FBA 8960	Good
	Pure Acrylic	FBA 1115	Better
	Low VOC Acrylic	FBA 1118 GL	Better
	General Purpose Acrylic	FT 1126	Better
	High Shear General Purpose Rubber	FT 8345	Better
• 3120 Black Sponge Rubber with F549 Tissue	High Performance Low VOC	FT 1149 X	Best
	LSE Modified Acrylic	FT 1943 PP	Best

Good = Likely to achieve rubber tear with heated lamination.
Better = May achieve rubber tear without heat lamination.
Best = Likely to achieve rubber tear at room temperature.

For more information about Rogers Griswold cellular rubber products visit, rogerscorp.com/elastomeric-material-solutions/griswold-rubber/griswold-cellular-rubber.

To identify the Avery Dennison Core Series adhesive ideal for your application, please refer to the Core Series Product Selection Tool. Using the Core Series' simple four-step adhesive selection process, you will be able to find the product that best suits your needs. The Core Series Product Selection Tool is available at tapes.averydennison.com/coreseries.

ADV#195 2/2022