

RM Biltrite™ Flexgard® Silicone Rubber has a wide temperature range, enabling it to retain its initial shape and mechanical strength and operate normally overall in extreme temperatures. Several of silicone rubber's technical specifications are far superior to organic rubbers at such temperatures. Unlike organic rubbers, silicone can well withstand ozone, UV, heat and other aging factors. It is also highly inert and does not react with most chemicals, making it suitable for medical applications such as implants, tubing, and catheters. Silicone is biocompatible and both hypoallergenic and non-allergenic, making it a safe choice for baby care products and food contact purposes. It exhibits strong chemical stability, preventing it from affecting any substrates that come in contact such as skin, water, blood, and active ingredients.

**Applications:** Automotive, food, electronic, medical, construction, and pharmaceutical industries, outdoor, extreme environments, and manufacturing uses.



**STYLE #715: FLEXGARD® COMMERCIAL SILICONE**

Item ID	Durometer Hardness	Tensile Strength (min)		Elongation	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa	min %	°F	°C			
IR715-40	40	600	4.1	400	-80 - +450	-62 - +232	Red	Smooth	No talc / film liner
IR715-50	50	600	4.1	300	-80 - +450	-62 - +232	Red	Smooth	No talc / film liner
IR715-60	60	600	4.1	300	-80 - +450	-62 - +232	Red	Smooth	No talc / film liner
IR715-70	70	650	4.1	275	-80 - +450	-62 - +232	Red	Smooth	No talc / film liner
IR715-80	80	650	4.5	275	-80 - +450	-62 - +232	Red	Smooth	No talc / film liner

**STYLE #735: FLEXGARD® SILICONE SPECIFICATION\* GRADE**

Item ID	Durometer Hardness	Tensile Strength (min)		Elongation	Temperature Range		Color	Finish	Surface
	Shore A (± 5)	psi	MPa	min %	°F	°C			
IR735-40	40	850	5.9	400	-80 - +500	-62 - +260	Red	Smooth	No talc / film liner
IR735-50	50	850	5.9	400	-80 - +500	-62 - +260	Red	Smooth	No talc / film liner
IR735-60	60	900	6.2	400	-80 - +500	-62 - +260	Red	Smooth	No talc / film liner
IR735-70	70	850	5.9	400	-80 - +500	-62 - +260	Red	Smooth	No talc / film liner

\* ZZR765 (A-A-59588) ASTM D2000 M1GE

**ROLL DIMENSIONS**

Units	Widths		Thicknesses								
U.S.	36"	48"	1/16"	3/32"	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
Metric	91.4 cm	121.9 cm	1.6 mm	2.4 mm	3.2 mm	4.8 mm	6.4 mm	9.5 mm	12.7 mm	19.1 mm	25.4 mm

Custom sizes available upon request

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Typical Physical Properties: Per ASTM D900, Section 7.1, Buyer agrees that when standard test specimens are cut from finished parts in accordance with Practice D3183, a deviation to the extent of 10% on tensile strength and elongation values is permissible. All of our thermoplastic products are a proprietary blend of plastics and other components. In any application, the customer should evaluate the performance requirements and conditions that will affect the working life of the thermoplastic product. Where appropriate, field tests may need to be performed before the type of thermoplastic is selected. If the customer's quality assurance includes the testing of thermoplastic materials, the test criteria should specify the physical property of the ASTM specification that is most critical to its application. Polymer type alone may not be adequate for the selection of the thermoplastic that is best suited for a specific application. Buyer acknowledges the use of its own knowledge, expertise, skill, experience and judgment in the selection of products and/or in the selection, provision, or designation of any specifications or set of specifications for a product(s) agreed upon by the Buyer and Seller. Buyer acknowledges that Seller shall not be liable for, and Buyer assumes all risk of, inaccurate or unsuitable specifications or information provided, selected or designed by the Buyer. RM BILTRITE™ LLC MAKES NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE SUITABILITY OF MATERIALS FOR A PARTICULAR PURPOSE. BUYERS AND USERS MUST DETERMINE THE SAFETY AND SUITABILITY OF RM BILTRITE™ LLC'S PRODUCTS FOR THEIR OWN PURPOSES, AND ASSUME ALL RISK, RESPONSIBILITY, AND LIABILITY FOR ALL INJURIES, LOSSES, OR DAMAGES ARISING FROM THE APPLICATION OF THE INFORMATION OR USE OF RM BILTRITE™ LLC'S PRODUCTS, WHETHER OR NOT CAUSED BY RM BILTRITE™ LLC'S NEGLIGENCE OR BASED ON STRICT PRODUCT LIABILITY. Terms and conditions are available upon request.