

## Silicone Rubber – Specification Grade

Silicone rubber is physiologically inert, thus making it the preferred choice of the medical, pharmaceutical and food processing industries. Silicone has comparatively low mechanical properties, tensile strength, elongation and tear strength, though, it keeps constant even at high temperatures. High-pressure steam should be avoided. Its resistance to oil and hydrocarbon products is fairly limited and similar to that of Chloroprene rubbers. Silicone has a reasonable resistance to a wide range of general chemical products, but acids, alkalis, esters and kerosene should be avoided. Silicone has excellent resistance to heat (dry air), at + 392°F intermittent and it remains flexible at low temperatures of -94°F. It is also resistant to ultra-violet light, ozone and weathering. Silicone exhibits low inflammability and low smoke toxicity and it has good electrical insulation properties.



Finish	Smooth
Powder	No
Color	Red

### Technical Specifications

Style#	Hardness (±5)	Tensile Strength		Elongation at break	Abrasion	Compression Set	Temperature Range (General Guidelines)		Oil Swell in ASTM oil 903
		PSI	(min) kg/cm <sup>2</sup>				(min) %	mm <sup>3</sup>	
IR735-40	40	850	60	400	-	-	-62°C to +260°C	-80°F to +500°F	-
IR735-50	50	850	60	400	-	-	-62°C to +260°C	-80°F to +500°F	-
IR735-60	60	900	63	400	-	-	-62°C to +260°C	-80°F to +500°F	-
IR735-70	70	850	60	400	-	-	-62°C to +260°C	-80°F to +500°F	-

Specifications are subject to change without notice

### Available Roll Sizes

Thickness		Width		Length	
Inches	mm	Inches	Meter	Feet	Meter
1/16"	1.6	36 & 48	.91 & 1.2	100	30.5
3/32"	2.4	36 & 48	.91 & 1.2	75	22.9
1/8"	3.2	36 & 48	.91 & 1.2	50	15.3
3/16"	4.8	36 & 48	.91 & 1.2	35	10.7
1/4"	6.4	36 & 48	.91 & 1.2	35	10.7
3/8"	9.5	36 & 48	.91 & 1.2	35	10.7
1/2"	12.7	36 & 48	.91 & 1.2	25	7.6
3/4"	19.1	36 & 48	.91 & 1.2	25	7.6
1"	25.4	36 & 48	.91 & 1.2	25	7.6

- For available inventory, please contact us
- Thickness and sizes per **RMA** tolerances



Typical Physical Properties: The typical physical properties are tensile, elongation, and durometer, obtained on slabs; Product Physical Values are based on values obtained from standard laboratory test specimens prepared and tested in accordance with the applicable test methods. Test results from specimens prepared from finished products may not duplicate values obtained from standard test specimens. Buyers agree 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 sheet rubber products are a proprietary blend of polymers formulated to meet designated specifications. In our Commercial products, the named polymer is not necessarily the polymer representing the highest percentage of the polymer blend. The various specifications call out are a valuable guide in selecting the type and grade of sheet rubber for a particular application. In any application, the customer should evaluate the performance requirements and conditions that will affect the working life of the rubber product. Where appropriate, field tests may need to be performed before the style of sheet rubber is selected. If the customer's quality assurance includes the testing of rubber material, the test criteria should specify the physical property that is most critical to its application. Polymer type alone may not be adequate for the selecting of the rubber 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 product(s) 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 unusable specifications or information provided, selected or designed by the Buyer. ZENITH RUBBER USA 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 ZENITH RUBBER USA'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 ZENITH RUBBER USA'S PRODUCTS, WHETHER OR NOT CAUSED BY ZENITH RUBBER USA'S NEGLIGENCE OR BASED ON STRICT PRODUCT LIABILITY. Terms and conditions are available upon request.