

Butyl Rubber

Butyl Rubber is a copolymer comprised of isobutylene and a small percentage of isoprene. It has a very low permeability to air and other gases. It has excellent resistance to ozone, oxidation and sunlight, with an excellent temperature range of -45° C to + 130° C. Butyl Rubber has a very low resilience, which makes it ideal for vibration damping and shock absorption applications but offers only a moderate resistance to abrasion and compression. With careful compounding, Butyl Rubber can be made to acquire a high tensile strength. It is resistant to most inorganic products and highly resistant to mineral acids, alkaline and aqueous acids. We do not recommend its use in applications where resistance to oils and hydrocarbons is required. We can offer halogenated Butyl Rubber Sheeting for specified applications.



Finish	Smooth
Powder	No
Color	Black

Technical Specifications

Style#	Hardness (±5)		Tensile Strength		Elongation at break	Abrasion	Compression Set	Temperature Range (General Guidelines)		Oil Swell in ASTM oil 903
	Shore A	PSI	(min) kg/cm ²	(min) %	(min) %	mm ³	(max) %	C°	F°	(max) %
IR590	55	1800	130	550	-	-	25	-45° C to +125° C	-49° F to +257° F	-
IR591	60	1200	90	350	-	-	40	-40° C to +150° C	-40° F to +302° F	-
IR592	65	800	60	250	-	-	40	-40° C to +125° C	-40° F to +257° 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 obtained on ASTM Test slabs and buttons; ASTM and Product Physical Values: ASTM basic requirements for physical properties are based on values obtained from standard laboratory test specimens prepared and tested in accordance with the applicable ASTM test methods. Test results from specimens prepared from finished products may not duplicate values obtained from standard test specimens. Per ASTM D300, Section 7.1, Buyers 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; Use of the ASTM Specifications: All of our sheet rubber products are a proprietary blend of polymers formulated to meet designated ASTM D2000 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 outs 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 call outs of the ASTM specification 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 unsuitable 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.