



Rubber Information

Rubber is frequently used in automotive and industrial machinery components, medical supplies, and building materials, as well as in vibration-dampening and leveling applications. Its elastic properties also make rubber ideal for a wide variety of sealing and insulation applications.

The specific type of rubber you need is determined upon your application, and depends upon:

- Durometer/hardness
- Tensile strength
- Elongation
- Temperature range
- Resistance to chemicals, abrasion, and the elements

DEFINITIONS

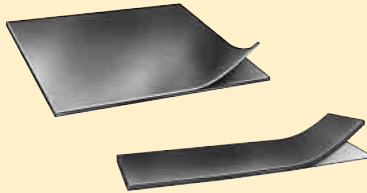
Durometer/hardness—Elastomer material hardness is referred to as "durometer" and is measured on the Shore scale (e.g., durometer: 70 Shore A). The higher the durometer number, the harder the material.

Elongation—The measured percent increase in original length of a specimen when it breaks.

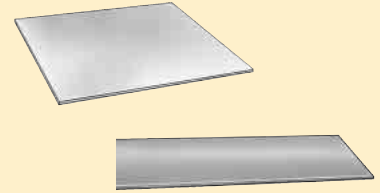
Tensile strength—Measured in psi, tensile strength is the amount of force the material can withstand before rupturing.



Plain-Backed
Sheet and Strip



Adhesive-
Backed
Sheet and Strip



Food Grade
Sheet and Strip

RUBBER COMPARISON CHART

Material	Duro- meter	Tensile Strength (psi)	Elong- ation (%)	Max. Temp. (°F)	Abrasion Resist.	Adhesion to Metals	Comp- ression Set	Corrosion/ Chemical Resist.	Electrical Resist.	Flame Resist.	Impact Resist.	Oil Resist.	Resilience	Solvent Resist.	Tear Resist.	Weather Aging
Buna N - High-Grade	40A	1500	500	225	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Poor	Fair	Good/ Excellent	Good	Good/ Excellent	Fair/Good	Poor
	50A	1500	400													
	60A	1500	300													
Buna N - Commercial- Grade	40A	800	400	220	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Poor	Fair	Good/ Excellent	Good	Good/ Excellent	Fair/Good	Poor
	50A	1000	300													
	60A	1000	200													
	70A	1000	200													
Buna N - Food-Grade	60A	1000	450	225	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Poor	Fair	Good/ Excellent	Good	Good/ Excellent	Fair/Good	Poor
Butyl - General- Purpose	60A	1200	300	225	Fair/Good	Good	Fair/Good	Fair/Good	Excellent	Poor	Fair	Poor	Fair	Poor	Good	Good/ Excellent
EPDM - General- Purpose	60A	1000	300	225	Good	Fair/Good	Good	Good	Fair	Poor	Fair	Poor	Good	Poor	Poor/Fair	Excellent
Gum (Natural) - Commercial- Grade	40A	3000	600	140	Excellent	Excellent	Excellent	Fair	Excellent	Poor	Excellent	Poor	Excellent	Poor	Good/ Excellent	Poor/Fair
Hypalon - High-Grade	60A	1500	350	220	Good/ Excellent	Excellent	Fair	Good	Good	Good	Fair	Fair/Good	Fair	Fair/Good	Fair/Good	Excellent
Neoprene - High-Grade	30A	1200	450	225	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Good	Good	Fair/Good	Excellent	Fair	Fair/Good	Good
	40A	1500	400													
	50A	1500	350													
	60A	1500	300													
Neoprene - Commercial- Grade	30A	1000	350	170	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Good	Good	Fair/Good	Excellent	Fair	Fair/Good	Good
	40A	1000	350													
	50A	1000	350													
	60A	1000	250													
Neoprene - Food-Grade	50A	1200	500	220	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Good	Good	Fair/Good	Excellent	Fair	Fair/Good	Good
Neoprene Spring - Commercial- Grade	70A	1500	200	220	Good/ Excellent	Good/ Excellent	Good	Fair	Poor	Good	Good	Fair/Good	Excellent	Fair	Fair/Good	Good
Silicone - Commercial- Grade	30A	550	100	400	Poor/Fair	Good	Good	Fair	Good	Fair	Fair	Poor/Fair	Good	Poor	Poor	Excellent
	40A	550	350													
	50A	500	250													
	60A	500	200													
SBR Black - General- Purpose	70A	800	150	170	Good/ Excellent	Excellent	Good	Poor	Poor	Poor	Excellent	Poor	Good	Poor	Fair/Good	Poor/Fair
SBR Red - General- Purpose	70A	400	150	170	Good/ Excellent	Excellent	Good	Poor	Poor	Poor	Excellent	Poor	Good	Poor	Fair/Good	Poor/Fair
Vinyl - General- Purpose	70A	1000	200	160	Fair	Poor	Good	Fair/Good	Good	Poor	Good	Good	Poor	Poor	Fair	Good
Viton® - General- Purpose	70A	800	200	400	Good	Good	Good	Good	Good	Excellent	Poor	Excellent	Fair	Excellent	Good	Good/ Excellent