

Properties of Elastomers

For A Complete "Properties of Elastomers" Chart. . . Call Us Today.

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice of any product in violation of any patent or in violation of any law or regulation.

| PROPERTIES: | Natural Rubber | Styrene Butadiene | Ethylene Propylene | Neoprene | Nitrile | Silicone | Urethane Rubber | Fluorocarbon | Fluorosilicone |
|------------------------------------|----------------|-------------------|--------------------|--------------------------------------|----------------|-----------------|---|---|---|
| Hardness Range (Shore A) | 20 - 90 | 40 - 90 | 30 - 90 | 10 - 95 | 20 - 95 | 10 - 85 | 10A to 80D | 50 - 95 | 40 - 80 |
| Tear Resistance | Good | Fair | Good | Good | Fair | Poor | Excellent | Fair | Fair |
| Abrasive Resistance | Excellent | Good | Good | Excellent | Good | Poor | Outstanding | Good | Good |
| Compression Set | Good | Excellent | Good | Fair to Good | Good | Fair | Good | Very Good | Fair |
| Permability to Gases | Fair | Fair | Fair to Poor | Low | Fair | Fair | Fair | Very Low | Low |
| ACID RESISTANCE: | | | | | | | | | |
| Dilute | Fair to Good | Fair to Good | Excellent | Very Good | Good | Fair | Poor | Excellent | Good |
| Concentrated | Fair to Good | Fair to Good | Good | Good | Good | Fair | Poor | Excellent | Fair |
| SOLVENT RESISTANCE: | | | | | | | | | |
| Aliphatic Hydrocarbons | Poor | Poor | Poor | Good | Excellent | Poor | Excellent | Excellent | Fair |
| Aromatic Hydrocarbons | Poor | Poor | Poor | Fair | Good | Poor | Fair to Good | Excellent | Fair |
| Oxygenated (ketones,etc.) | Good | Poor | Good | Poor | Poor | Fair | Poor | Poor | Poor |
| Lacquer Solvents | Poor | Poor | Good | Poor | Fair | Poor | Poor | Poor | Poor |
| Swelling in Lubricating Oil | Poor | Poor | Poor | Good | Very Good | Fair | Excellent | Excellent | Good |
| RESISTANCE: | | | | | | | | | |
| Oil and Gasoline | Poor | Poor | Poor | Good | Excellent | Fair | Excellent | Excellent | Good |
| Water Absorption | Very Good | Very Good | Excellent | Good | Fair to Good | Good | Good @ 70F Poor @ 212 F | Very Good | Very Good |
| Ozone | Fair | Fair | Excellent | Excellent | Fair | Excellent | Outstanding | Excellent | Excellent |
| Sunlight | Poor | Fair | Very Good | Very Good | Poor | Excellent | Good | Very Good | Very Good |
| Temperature Range (c) | -55 - +90 | -50 - +100 | -50 - +150 | -40 - +100 | -40 - +100 | -60 - +200 | -25 - +100 | -20 - =200 | -60 - +175 |
| Major Attributes | Resilience | General Purpose | General Purpose | Oil & Gas Resistance, Weatherability | Oil Resistance | Heat Resistance | Abrasion Resistance, Load Bearing Characteristics | Heat Resistant, Excellent Solvent & Chemical Resistance | Low Temperature Flexibility, Fluid Resistance, Ozone Resistance |