



## General Rubber Properties Chart

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This rubber properties chart provides a guide for making initial decisions about the suitability of an elastomer for a given application or service environment, most of the main rubbers are included in the properties chart below. Delta Rubber's capability also extends to a wide variety of more specialist blends and formulations, please contact us for more details.

ELASTOMER	Butyl <i>IIR</i>	EPDM <i>EPDM</i>	Hypalon <i>CSM</i>	Natural <i>NR</i>	Neoprene <i>CR</i>	Nitrile <i>NBR</i>
<b>Operating Temperature</b>	-45 to 150°C	-50 to 140°C	-35 to 150°C	-45 to 95°C	-35 to 110°C	-35 to 125°C
<b>Mechanical Strength</b>	Fair / Poor	Fair / Good	Good / Excellent	Excellent	Good / Excellent	Good
<b>Abrasion Resistance</b>	Good	Fair	Good	Good / excellent	Good	Excellent
<b>Flex Resistance</b>	Good	Fair	Good	Excellent	Good	Fair
<b>Low Temp. Flexibility</b>	Good	Good / Excellent	Fair / Good	Good	Fair / Good	Fair / Good
<b>Ozone/Weather Resistance</b>	Excellent	Excellent	Excellent	Poor / Fair	Good	Fair
<b>Water Resistance</b>	Excellent	Excellent	Good	Good	Good	Good
<b>Impermeability to Gases</b>	Excellent	Good	Good / Excellent	Fair	Good	Good
<b>Oil Resistance</b>	Poor	Poor	Fair	Poor	Fair	Excellent
<b>Fuel Resistance</b>	Poor	Poor	Poor / Fair	Poor	Poor/ Fair	Good
<b>Resistance to Dilute Acid</b>	Excellent	Excellent	Excellent	Good	Fair	Excellent
<b>Resistance to Dilute Alkali</b>	Excellent	Good	Excellent	Fair	Fair	Good
<b>Special Properties</b>			Self extinguishing, good pigmentation		Self extinguishing	Fuel and oil resistance

ELASTOMER	Polyurethane <i>PU</i>	SBR <i>SBR</i>	Silicone <i>SI</i>	TPE	Vamac <i>AEM</i>	Viton <i>FKM</i>
<b>Operating Temperature</b>	-50 to 90°C	-40 to 95°C	-60 to 300°C	-40 to 80°C	-30 to 175°C	-20 to 250°C
<b>Mechanical Strength</b>	Excellent	Good	Poor	Good	Fair / Good	Good
<b>Abrasion Resistance</b>	Excellent	Excellent	Fair	Good / Excellent	Good	Good
<b>Flex Resistance</b>	Excellent	Good	Poor / Fair	Good / Excellent	Fair / Good	Poor / Fair
<b>Low. Temp Flexibility</b>	Good	Good	Excellent	Good	Fair	Poor / Fair
<b>Ozone/Weather Resistance</b>	Excellent	Poor / Fair	Excellent	Excellent	Excellent	Excellent
<b>Water Resistance</b>	Fair	Good	Excellent	Good	Excellent	Excellent
<b>Impermeability to Gases</b>	Good	Fair	Poor	Good	Good / Excellent	Good / Excellent
<b>Oil Resistance</b>	Good / Excellent	Poor	Poor / Fair	Poor / Fair	Good	Excellent
<b>Fuel Resistance</b>	Good	Poor	Poor	Poor	Poor / Fair	Excellent
<b>Resistance to Dil. Acid</b>	Fair	Fair	Fair	Fair	Fair	Good
<b>Resistance to Dil. Alkali</b>	Good	Fair	Fair	Fair	Poor	Fair
<b>Special Properties</b>	Abrasion resistance		Heat resistance		Non halogen / low smoke emission	Heat and chemical resistance

NB. These properties are intended only as a guide. Please consult us if you require more detailed application information. The purchaser shall be ultimately responsible for determining the suitability of the product for any particular application.



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