

## **Chemical Resistance Chart**

These charts are for information purposes only. Temperature, exposure length, concentration and reactions between multiple substances can all contribute to a compound's performance in the presence of any chemical(s). Anchor Rubber cannot be held liable or provide warranty due to the accuracy of or reliance on any of the following information.

### **PVC**

Polyvinyl Chloride (PVC) is biologically and chemically resistant. PVC can be formulated to meet fire resistant and anti-static requirements.

Examples: 2-1121, 2-1151, 2-1201

### **RAV**

Rubber and Vinyl (RAV), also known as RMV, is a refined PVC formulation. It offers high resistance to fats, oils and chemicals. It is a popular compound for use in food applications.

Examples: 1-2911, 1-2931, 2-1911

### **Urethane**

Urethane is a good choice for rough and/or oily applications. It enjoys excellent abrasion and oil resistance.

Examples: 4-4400, 4-4600, 4-4700

### **SBR**

Styrene Butadiene Rubber (SBR) is also known as RMA Grade II rubber. Its abrasion resistance makes this compound popular for belting in the Aggregate Industry and package handling applications, among others. It has good resistance to the elements, ozone and sunlight but poor oil resistance.

Examples: 5-2531, 5-2731, 3-1102

### **NBR**

Butadiene Acrylonitrile, also called Nitrile or Buna N or NBR, gives resistance to oil, heat and grease.

Examples: 1-2002, 1-6003

### **MOR**

MOR stands for Moderate Oil Resistance. This compound performs well in wood, agriculture and light industrial applications where limited oils are present.

Examples: 5-2732, 5-3732

### **SOR**

Super Oil Resistance (SOR) engenders extra oil resistance. It is used in high oil applications such as asphalt manufacture.

Examples: 5-2734

**EPDM**

Ethylene Propylene Diene Methylene Tripolymer (EPDM) is a formulation designed for extreme temperature, up to 350F for fines and 400F for lumps.

Examples: 5-3733

**Butyl**

Isobutylene Isoprene (Butyl) has very good temperature resistance. It can withstand environments from -65F to 300F. It is popular in food applications but has limited abrasion resistance.

Examples: 1-5005

**NR**

Natural Rubber or Polyisoprene exhibits abrasion, gouge and cut resistance. It is generally used in non-marking belts.

Examples: 3-4403, 4-1500

**Ratings**

**E Excellent**—High resistance

**G Good**—Belt life expectancy depends on extent of exposure. Belt will have slight weight and dimensional changes over time.

**F Fair**—Limited functionality and resistance. Belt will experience weight and dimensional changes.

**NR Not Recommended**

**U Unknown**—Inadequate evidence to make determination.

Polymer	Temperature Range	Abrasion Resistance	Cut/Gouge Resistance	Oil Resistance
PVC	0F to 180F	G	G	G
RAV	-20F to 180F	G	G	E
Urethane	-20F to 180F	E	E	E
SBR	-25F to 250F	E	G	NR
NBR	0F to 250F	G	G	E
MOR	-20F to 200F	G	G	G
SOR	-10F to 200F	G	G	E
EPDM	-20F to 400F	G	G	NR
Butyl	-65F to 300F	F	G	NR
NR	-40F to 200F	E	E	NR