

**Styrene Butadiene (SBR)** is a low-cost, high-volume rubber that is available in various ratios of these two monomers. SBR copolymers with high styrene and low butadiene content can be compounded into high tensile strength & high hardness materials without the use of large amount of fillers. Because of the good abrasion resistance and leather-like properties of these compounds, they are used for shoe soles and floor tiles. On the other hand, high butadiene & low styrene copolymers offer good flexibility at low temperatures. Special compounding is required for good weather ability. On the whole SBR has poor fatigue resistance.

**Limitations:** Low resistance to oils and chemicals. Must be specially compounded to provide Ozone, Sunlight, heat & flame resistance.

**Temperature Resistance:** -54°C to 110°C (-65° to 230° F)

**Typical Uses:** Vehicle Tyres, Brake Systems, Floor Tiles

**Physical Properties:**

	Excellent	Good	Fair	Poor
Tensile strength		•		
Elongation		•		
Low temperature flexibility		•		
Compression Set			•	
Tear resistance		•		
Abrasion resistance		•		
Flame resistance				•
Gas permeability			•	

**Chemical Resistance:**

	Excellent	Good	Fair	Poor
Oxidation		•		
Alcohols		•		
Water		•		
Glycol		•		
Acetone		•		
Steam			•	
Weather			•	
Air			•	
Ozone				•
Diester oils				•
Mineral oils				•
Silicone oils				•