Molded & Extruded Rubber Products
Tel: +86-532-68950060 Fax: +86-532-68950070
www.ejayrubber.com

Material Performance

NR: Temp Range: -55°C ... +55°C, Shore Hardness: 30 Duro...90Duro

Strengths: High resilience, High tensile strength with good resistance to abrasion, tear & fatigue.

Weaknesses: Susceptible to attack by ozone, poor resistance to mineral &~ petroleum based oils.

SBR: Temp Range: -55°C ... +70°C, Shore Hardness: 40 Duro...80Duro

Strengths: Similar to NR, greater abrasion resistance, resilience, better wear resistance, low temperature

flexibility and better water resistance, heat aging

Weaknesses: Poor tear resistance after heating, susceptible to attack by ozone

NITRILE: Temp Range: -40°C ... +120°C, Shore Hardness: 40 Duro...90Duro

Strengths: Excellent fuel and oil resistance, Resistance to hydrocarbons, acids and bases is good. Excellent

resistance to permanent compression. Also available in an FDA compound.

Weaknesses: Poor ozone and low temp performance, but these can be amended by the addition of plasticizer

NEOPRENE: Temp Range: -40°C ... +135°C, Shore Hardness: 40 Duro...90Duro

Strengths: Good ageing, abrasion & weather resistance with some resistance to petroleum-based oils lend

themselves to low flammability applications. Also available in an FDA compound.

Weaknesses: Poor electrical properties, not resistant to ester lubricants & poor resistance to chemicals.

EPDM: Temp Range: -55°C ... +150°C, Shore Hardness: 25 Duro...80Duro

Strengths: Outstanding resistance to ozone, oxygen, Light ageing, oxidative & heat ageing & many inorganic

and organic chemicals, good low temperature behaviour.

Weaknesses: Poor resistance to petroleum-based fluids.

SILICONE: Temp Range: -30°C ... +220°C, Shore Hardness: 30 Duro...90Duro

Strengths: Outstanding ozone & weather resistance, good electrical properties, good temperature-range. Also

available in an FDA compound.

Weaknesses: Poor resistance to petroleum based fluids, has a tendency to creep.

VITON: Temp Range: -25°C ... +205°C, Shore Hardness: 50 Duro...90Duro

Strengths: Excellent resistance to high temperatures, heat, oil, ozone, weather and chemical attack. Also

available in an FDA compound.

Weaknesses: Only fair low temp performance.