



First Rubber Full Material List

December 26th, 2019 Rev. 02

Material	Properties	Our Capabilities
AEM ACM	Excellent resistance to the environment, ozone, oil, grease, high temperatures and aggressive additives. Low compression set.	Passed gasoline, gasohol, Oil#1, Oil#3 Immersion Test @ 150°C x 70 hours
CR	Great resistance to petroleum products, sunlight, ozone, heat and flame. Excellent physical properties.	Passed Thailand National Lab Testing
CSM	Excellent resistance to corrosive chemicals. Excellent abrasion resistance and excellent tensile and elongation	Mixable with other materials.
EPDM	Resistance to oxygen, ozone, and sunlight. Good electrical properties, low temperature flexibility, excellent heat, water and steam resistance	Passed compression test 100 kg-f and tensile test 170 kg-f
FKM	Very well resistance to ozone, high temperatures, oxygen, mineral oil, synthetic hydraulic fluids, fuel, aromatics and organic solvents and chemicals	Solely sourced from Du Pont Viton
FVMQ	Excellent resistance to petroleum products. Excellent resistance to aging and weather-sunlight	
HNBR	Good abrasion resistance and oil resistance	R134a agent applicable
IR	Resistance to tear and abrasion, excellent elasticity, and flex fatigue resistance	
NBR	Excellent physical properties. Resistance to water, petroleum products and fuels	Passed peel stand test for rubber and Teflon bonding testing
NBR+PVC	Increased resistance to ozone and abrasion.	Passed gasoline & gasohol immersion test and ozone resistance test
NR	Excellent mechanical properties. Excellent tensile, elongation, tear resistance and resilience and low temperature flexibility. Good abrasion resistance.	Passed 700,000 times adhesive testing for rubber and metal bonding
SBR	Resistance to solvents and petroleum products is about the same as NR.	
VMQ	Very good low and high temperature properties. Good resistance to ozone, weather and good insulator.	FDA Approved raw material.