**Comparison of Properties of Genertic Elastomers**

There are many kinds of sealing elastomers available in the market. We have provided a table below to assist customers in selecting suitable sealing materials for their systems.

Sealing Elastomers Summary Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Elastomer Type | Temperature Range | Chemical Resistance | Applications | Notes |
| Nitrile(NBR) | -40°C to 120°C | Oils, fuels, and hydraulic fluids | Automotive,oi and qas | Good abrasion resitance;not suitable for ozone or sunlight |
| Fluoroelastomer(FKM) | -20°C to 200°C | Strong acids, fuels, and solvents | Aerospace, automotive, chemical processing | Excellent chemical resistance;high temperature stability. |
| Silicone(VMQ) | -60°C to 230°C | Water, air, and certain chemicals | -o0d processing,medica devices | Good flexibity and temperature resistance;nnot suitable for high mechanical loads. |
| EPDM | -50°C to 150°C | Ozone, weathering, and steam | Automotive, HVAC, roofing | Excellent weather resistance;not suitable for oil. |
| Neoprene(CR) | -40°C to 120°C | Oils, ozone, and various chemicals | Construction, refrigeration | Moderate chemical resistance;good weatherability. |
| Polyurethane(PU) | -30°C to 100°C | Oils and fuels | Industrial applications, seals | High abrasion resistance;not suitable for high temperature. |
| Aflas(TFE/P) | -40°C to 200°C | High temperatures,steam,and aggressive chemicals | Chemical processing,aerospace | Excellent thermal and chemical resistance;more expensive. |
| SBR(Styrene-Butadiene Rubber) | -50°C to 100°C | Limited chemical resistance | Tires, gaskets, seals | Good wear resistance;not suitable for oils and solvents. |