

Material	NBR	HNBR	CR	EPM/EPDM	FVMQ	AU/EEU
Temperature Range	-51°C - 149°C (-60°F - 300°F)	-51°C - 149°C (-60°F - 300°F)	-29°C - 177°C (-20°F - 350°F)	-54°C - 150°C (-65°F - 302°F)	-60°C - 180°C (-76°F - 356°F)	-40°C - 82°C (-40°F - 180°F)
Tensile Strength	200-3,500 psi/ 1.37-2.41 MPa	1,500-3,500 psi/ 1.03-2.41 MPa	500-3,000 psi/ 3.44-2.06 MPa	1,015-3,045 psi/ 6.99-2.09 MPa	200-1,500 psi/ 1.37-1.03 MPa	500-6,000 psi/ 3.44-4.13 MPa
Minimum/Maximum Hardness (Shore A)	20/90	30/95	20/95	40/90	40/80	40/90
Maximum Elongation (%)	600	340	600	600	480	580
Compression Set	Good to excellent	Good to excellent	Poor to good	Good	Fair to good	Fair to good
Chemical Resistance	Aliphatic hydrocarbons, vegetable & mineral oils, greases	Aliphatic hydrocarbons, vegetable & mineral oils, greases	Silicone oil & grease, refrigerants, ammonia, carbon dioxide	Hot water & steam, glycol-based brake fluids, cleaning agents, silicone oil & grease. Resistant to phosphate ester-based hydraulic fluids used in aerospace applications	Aromatic mineral oils, fuels, low molecular weight aromatic hydrocarbons	Pure aliphatic hydrocarbons, mineral & silicone oil & grease
Primary Industry Uses	Petrochemical Aerospace	Petrochemical Aerospace	Oil and Energy	Automotive Aerospace	Aerospace	Automotive
Features	<ul style="list-style-type: none"> • Good mechanical properties • High wear resistance • Wide range of temperature resistance • High oil & fuel resistance 	<ul style="list-style-type: none"> • Excellent abrasion & tear properties • Resists ozone, sun-light, & other atmospheric environments • High wear resistance • Wide range of temperature resistance 	<ul style="list-style-type: none"> • Good oil, ozone, weather, aging, refrigeration, & chemical resistance • Good mechanical properties over a wide temperature range 	<ul style="list-style-type: none"> • Excellent resistance to phosphate ester fluids (Skydrol), brake fluids (glycol base), steam, weather, & ozone • Very good heat & oxidation resistance 	<ul style="list-style-type: none"> • High gas permeability • Poor tear & abrasion resistance • Very good chemical, fuel, & oil resistance 	<ul style="list-style-type: none"> • Generally resistant to ozones, hydrocarbons, moderate chemicals, oils, greases • Returns to original shape once load is removed w/little compression set • High temperature resistance
Limitations/ Not Recommended for	Not resistant to weathering, sunlight (UV), ozone	Direct sunlight (UV)	<ul style="list-style-type: none"> • Aromatic/ chlorinated hydrocarbons • Acetones 	<ul style="list-style-type: none"> • Non-polar fluids • Hydrocarbon oils • Lubricants • Greases 	<ul style="list-style-type: none"> • Not recommended for dynamic sealing, brake fluids, hydrazine, ketones • Limited physical strength • Poor abrasion resistance 	<ul style="list-style-type: none"> • Acids • Ketones • Esters • Ethers • Alcohols • Glycols hot water/steam • Alkalis • Amines

Note: Characteristic metrics are provided as generally accepted industry ranges. Actual ranges may vary, depending on specific industry applications, such as additives, formulations, curatives used, etc.

Contact Us

Greene, Tweed
Kulpsville, PA, USA

Tel: +1.215.256.9521
Fax: +1.215.256.0189

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