

TYPICAL GASKET MATERIAL PROPERTIES

ANSI/ASTM Designation	CR	EPDM (SULFUR CURE)	EPDM (PEROXIDE CURE)	FKM	NBR	SBR
Common Name	Chloroprene (Neoprene)	EPDM	EPDM	Viton®	Nitrile	Styrene Butadiene
Low Temp	-30°F	-40°F	-40°F	-10°F	-30°F	-30°F
High Temp	212°F	225°F	300°F	400°F	250°F	175°F
Durometer Shore A	15-95 Shore A	30-90 Shore A	30-90 Shore A	50-95 Shore A	20-100 Shore A	40-100 Shore A
Abrasion	Very Good – Excellent	Good - Excellent	Good - Excellent	Good	Good-Excellent	Excellent
Adhesion	Excellent	Good - Excellent	Good - Excellent	Fair - Good	Excellent	Excellent
General Properties	Good Weathering Resistance. Flame retarding. Moderate resistance to petroleum-based fluids.	Excellent ozone, chemical, and aging resistance. Poor resistance to petroleum-based fluids.	Excellent ozone, chemical, and aging resistance. Poor resistance to petroleum-based fluids.	Excellent oil and air resistance both at low and high temperatures. Very good chemical resistance.	Excellent resistance to petroleum-based fluids. Good physical properties.	Excellent resistance to water and low water absorption. Excellent elongation.
Resistant to:	Moderate chemicals and acids, ozone, oils, fats, greases, many oils, and solvents.	Animal and vegetable oils, ozone, strong and oxidizing chemicals.	Animal and vegetable oils, ozone, strong and oxidizing chemicals.	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Alcohol and water.
Attacked by:	Strong oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons.	Mineral oils and solvents, aromatic hydrocarbons	Mineral oils and solvents, aromatic hydrocarbons.	Ketones, low molecular weight esters and nitro containing compounds.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.	Many solvents, oils and concentrated acids.

SBR is the standard material for most water and sewer pipe gaskets.

INFORMATION FOR REFERENCE ONLY

Temperature ranges and resistance capabilities vary with application and individual compound formulation.