TYPICAL GASKET MATERIAL PROPERTIES

ANSI/ASTM	CR	EPDM	EPDM	FKM	NBR	SBR
Designation		(SULFUR	(PEROXIDE			
		CURE)	CURE)			
Common Name	Chloroprene	EPDM	EPDM	Viton®	Nitrile	Styrene
	(Neoprene)					Butadiene
Low Temp	-30°F	-40 ⁰ F	-40 ⁰ F	-10 ^o F	-30 ^o F	-30°F
High Temp	212 ⁰ F	225 ^o F	300°F	400 ^o F	250 ^o F	175 ⁰ F
Durometer	15-95 Shore A	30-90 Shore A	30-90 Shore A	50-95 Shore A	20-100 Shore A	40-100 Shore A
Shore A						
Abrasion	Very Good –	Good -	Good -	Good	Good-Excellent	Excellent
	Excellent	Excellent	Excellent			
Adhesion	Excellent	Good -	Good -	Fair - Good	Excellent	Excellent
		Excellent	Excellent			
General	Good	Excellent	Excellent	Excellent oil	Excellent	Excellent
Properties	Weathering	ozone,	ozone,	and air	resistance to	resistance to
	Resistance.	chemical, and	chemical, and	resistance	petroleum-based	water and low
	Flame	aging	aging	both at low	fluids. Good	water
	retarding.	resistance.	resistance.	and high	physical	absorption.
	Moderate	Poor	Poor	temperatures.	properties.	Excellent
	resistance to	resistance to	resistance to	Very good		elongation.
	petroleum-	petroleum-	petroleum-	chemical		
	based fluids.	based fluids.	based fluids.	resistance.		
Resistant to:	Moderate	Animal and	Animal and	All aliphatic,	Many	Alcohol and
	chemicals and	vegetable oils,	vegetable oils,	aromatic and	hydrocarbons,	water.
	acids, ozone,	ozone, strong	ozone, strong	halogenated	fats, oils, greases,	
	oils, fats,	and oxidizing	and oxidizing	hydrocarbons,	hydraulic fluids,	
	greases, many	chemicals.	chemicals.	acids, animal	chemicals.	
	oils, and			and vegetable		
	solvents.			oils.		
Attacked by:	Strong	Mineral oils	Mineral oils	Ketones, low	Ozone (except	Many solvents,
	oxidizing	and solvents,	and solvents,	molecular	PVC blends),	oils and
	acids, esters,	aromatic	aromatic	weight esters	ketones, esters,	concentrated
	ketones,	hydrocarbons	hydrocarbons.	and nitro	aldehydes,	acids.
	chlorinated,			containing	chlorinated and	
	aromatic and			compounds.	nitro	
	nitro				hydrocarbons.	
	hydrocarbons.					

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