

Elastomer Data

Seal performance data collected from numerous manufacturers													
Specific formulations of the same basic elastomer will perform differently than other													
Typical Information for Performance													
1 = Satisfactory for sealing												FKM=	FC = Fluoroc
2 = Fair, usually OK for static seals													Nitr = Nitrile
3 = Doubtful, sometimes OK for static seals													HNitr = hydro
4 = Unsatisfactory													NEO = Neopr
x = insufficient data, no test													N.R. = Natura
													AFLA = Aflas
													BUT = butyl
	FKM												
	FC	Viton A	Viton B	Viton GLT	Viton F	Viton GFLT	Nitr	HNitr	HNBR	NEO	N.R.	AFLA	FLRZ
Max Contin. Temp, F	392	392	410	392	446	392	250	300	356	210	212	430	
Max Contin. Temp, C	200	200	210	200	230	200	120	150	180	100	100	220	
Max peak temp F	450						250	345	400	265	250	480	500
Max peak temp C	230						120	175	200	130	120	250	260
Min Temp F	5						-15	-5	-22	-15	-46	40	32
Min Temp, C	-15						-25	-20	-30	-25	-50	5	
Tensile Strength, psi	2000						2500	4000				3000	
Tear resistance	3						2	2?		2		3	3
Impermeability to gas	2	2	2	2	2	2	2	2		2	3	2	2
Acetaldehyde	4	4	4	4	4	4	3	3		3	2	4	4
Acetic - 5%	1	1	1	1	1	1	2	2		1	2	4	4
Acetic Acid	4	4	4	4	4	4	2	2		4	3	4	4
Acetic Anhydride	4	4	4	4	4	4	4	4		2	2	2	2
Acetone	4	4	4	4	4	4	4	4		4	4	4	4
Acids - dilute	1	1	1	1	1	1	3		1	3	3	1	
Air or Oxygen	1	1	1	1	1	1	2		1	1	3	1	
Alcohol - denatured	1	1	1	1	1	1	1	1		1	1	1	1
Alcohol - ethyl	3	3	3	3	3	3	1	1		1	1	1	1
Alcohol - methyl	4	4	4	4	4	4	1	1		1	1	1	1
Alcohol - Octyl	1	1	1	1	1	1	2	2		2	2	1	1
Alcohol, Propyl	1	1	1	1	1	1	1	1		1	1	4	4
Alcohols - short chain	4	4	4	4	4	4	1		1	1	2	1	
Aldehydes	4	4	4	4	4	4	3		2	3	3	1	
Alkalis	4	4	4	4	4	4	3			3			
Alkalis - dilute	2	2	2	2	2	2	2		2	2	2	2	
Amines	4	4	4	4	3	3	4	4	1	2	2	2	2
Ammonia gas cold	4	4	4	4	4	4	1	1		1	1	1	1
Ammonia gas hot	4	4	4	4	4	4	4	4		2	4	2	2
Ammonium Chloride	1	1	1	1	1	1	1	1		1	1		
Ammonium Nitrate	1	1	1	1	1	1	1	1		1	x	1	1
Ammonium Nitrite	3	3	3	3	3	3	1	1		1	1	1	1
Animal oil and fats	1	1	1	1	1	1	1		1	2	4	1	
Benzoic Acid	1	1	1	1	1	1	4	4		4	1	1	1

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Brake Fluid	4	4	4	4	4	4	3	3		2	x	1	1
Bunker C Oil	1	1	1	1	1	1	1	4		4	4	2	2
Butadiene monomer	1	1	1	1	1	1	4	4		4	x	2	2
Butane	1	1	1	1	1	1	1	1		1	4	3	3
Butyl Amine/N-ButA	4	4	4	4	4	4	3	3		4	4	2	2
Butyl Cellosolve	4	4	4	4	4	4	3	3		3	4	3	3
Butylene	1	1	1	1	1	1	2			3	4		
Butyric Acid	2	2	2	2	2	2	4			4	x		
Calcium Chloride	1	1	1	1	1	1	1	1		1	1	1	1
Calcium Hydroxide	1	1	1	1	1	1	1	1		1	1	1	1
Calcium Hypochlorite	1	1	1	1	1	1	1	2		4	4	1	1
Carbon Disulfide	1	1	1	1	1	1	4	4		4	4	1	1
Carbon monoxide	1	1	1	1	1	1	1	1		2	2	1	1
Carbonic acid	1	1	1	1	1	1	1	1		1	1	1	1
Castor oil	1	1	1	1	1	1	1	1		1	1	1	1
Cellosolve	4	4	4	4	4	4	4	4		4	4	1	1
Chlorinated	2	2	2	2	2	2	4		4	4	4	2	
Chlorinated Solvent	1	1	1	1	1	1	4	4		4	4	4	4
Chlorinated solvents	1	1	1	1	1	1	3		2	4	4	1	
Chlorine - dry	1	1	1	1	1	1	4	3		4	4	3	3
Chlorine - wet	1	1	1	1	1	1	3	3		4	3	3	3
Chlorine dioxide	2	2	2	2	2	2	4	4		4	4	3	3
Chloroacetic Acid	4	4	4	4	4	4	4			4	4		
Chloroform	1	1	1	1	1	1	4	4		4	4	4	4
Chlorotoluene	1	1	1	1	1	1	4			4	4	4	
Chlorox	1	1	1	1	1	1	2	2		2	4	1	1
Citric Acid	1	1	1	1	1	1	1	1		1	1	1	1
CO2 - dry	2	2	2	2	2	2	1	1		2	2	1	1
CO2 - wet	2	2	2	2	2	2	1	1		2	2	1	1
Coconut oil	1	1	1	1	1	1	1	1		3	4		
Copper Sulfate - 10%	1	1	1	1	1	1	1	1		1	2	1	1
Creosote - coal tar	1	1	1	1	1	1	1	1		2	4	1	1
Dextron	1	1	1	1	1	1	1	1		2	4	1	1
Dibenzyl Ether	4	4	4	4	4	4	4	4		4	4	3	3
Dichlorobenzene	1	1	1	1	1	1	4			4	4	4	
Diesel Oil & fuel oil	1	1	1	1	1	1	2	1	2	3	4	1	1
Dioxane	4	4	4	4	4	4	4	2		4	4	4	4
Emulsion - water-in-oil	1	1	1	1	1	1	3		2	4	4	1	
Epoxy Resins	4	4	4	4	4	4	3	3		1	x	2	2
Ethers	3	3	3	3	3	3	4		4	4	4	4	
Ethyl Benzene	1	1	1	1	1	1	4	4		4	4	3	3
Ethyl Cellulose	4	4	4	4	4	4	2			2	2		
Fatty Acids	1	1	1	1	1	1	2	2		2	x	1	1
Ferric Chloride	1	1	1	1	1	1	1	1		2	1	1	1
Formaldehyde	4	4	4	4	4	4	3	2		2	2	4	4
Freon-13	1	1	1	1	1	1	1			1	1		
Fuel Oil #6	1	1	1	1	1	1	2	2		4	4	1	1
Fuel oil and diesel	1	1	1	1	1	1	2	1	2	3	4	1	1
Furan	x	x	x	x	x	x	4	4		4	4	4	4
Furfuryl Alcohol	x	x	x	x	x	x	4	4		4	4	2	2
Gasoline	1	1	1	1	1	1	2	2		4	4	3	3
Gasoline - leaded	1	1	1	1	1	1	2		2	3	4	2	

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Glycerine	1	1	1	1	1	1	1			1	1		
Glycols	1	1	1	1	1	1	1			1	1	1	1
Grease	1	1	1	1	1	1	1	1		4	4	2	2
H2S 1% , 10% CO2, 89%	4	4	4	4	4	4	4					1	
H2S 5%, 10% CO2, 85%	4	4	4	4	4	4	4						
H2S gas, wet, 300F												2	
H2S Oil, 300F												1	
Helium	1	1	1	1	1	1	1	1		1	1	1	1
Heptane - N	1	1	1	1	1	1	1	1		2	4	3	3
Hexane - N	1	1	1	1	1	1	1	1		2	4	2	2
Hydraulic fluids-mineral	1	1	1	1	1	1	1		1	3	4	1	
Hydraulic Oil	1	1	1	1	1	1	1	1		2	4	1	1
Hydrocarbon - aliphatic	1	1	1	1	1	1	1		1	2	4	1	
Hydrocarbon - aromatic	1	1	1	1	1	1	3		3	4	4	3	
Hydrocarbons	1	1	1	1	1	1	1			2	4	1	1
Hydrochloric Acid	1	1	1	1	1	1	3	3		3	3	1	1
Hydrofluoric Acid	1	1	1	1	1	1	3			1	2	1	1
Hydrogen Peroxide	1	1	1	1	1	1	2	2		1	2	1	1
Hydrogen Sulfide	4	3	3	3	2	3	4	4		2	4	1?	1
Isobutyl Alcohol	1	1	1	1	1	1	2	2		1	1	1	1
Isopropyl Alcohol	1	1	1	1	1	1	2	2		2	1	1	1
Keros/Xylene 350F												1?	
Kerosene	1	1	1	1	1	1	1	1	1	2	4	2	2
Ketones	4	4	4	4	4	4	4		4	4	4	2	
Linseed Oil	1	1	1	1	1	1	1	1		3	4	1	1
Magnesium Chloride	1	1	1	1	1	1	1	1		1	1	1	1
Maleic Anhydride	1	1	1	1	1	1	4	4		4	4	1	1
MEK	4	4	4	4	4	4	4	4		4	4	2	2
Methane	1	1	1	1	1	1	1	1		2	4	2	2
Methyl Acetate	4	4	4	4	4	4	4	4		2	4	3	4
Methyl Formate	4	4	4	4	4	4	4	4		2	4	4	4
Mineral lube oils	1	1	1	1	1	1	1		1	2	4	1	
Mud, OB, 300F												2	
Mud, WB, 300F												1?	
Naphtha	1	1	1	1	1	1	2	2		4	4	2	2
Naphthanenic Acid	1	1	1	1	1	1	2			4	4		
Nathalene	1	1	1	1	1	1	4	4		4	4	3	3
Nitrobenzene	2	2	2	2	2	2	4	4		4	4	1	1
Nitrogen	1	1	1	1	1	1	1	1		1	1	1	1
Oil-in-water emulsions	1	1	1	1	1	1	3		2	4	4	1	
Oil - Corn Oil	1	1	1	1	1	1	1	1		3	4	1	1
Oil - Cottenseed Oil	1	1	1	1	1	1	1	1		3	4	1	1
Oil - crude	1	1	1	1	1	1	2	1		4	4	1	1
Oil - Fuel oil and diesel	1	1	1	1	1	1	2	1	2	3	4	1	1
Oil - Kerosene	1	1	1	1	1	1	1	1	1	2	4	2	2
Oil - motor oil	1	1	1	1	1	1	1	1		3	4	1	1
Oil - vegetable	1	1	1	1	1	1	1		1	3	4	1	
Oil -Crude - less 250F	1	1	1	1	1	1	1			2	4	1	
Oil -Crude - more 250F	2	2	2	2	2	2	4			4	4	1	
Oil Lube (SAE 10/20	1	1	1	1	1	1	1	2		2	4	2	2
Oxygen or air	1	1	1	1	1	1	2		1	1	3	1	
Pentane - 2 methyl	1	1	1	1	1	1	1			2	4		

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Phosphate esters-alpha	3	3	3	3	3	3	4		1	4	4	1	
Phosphate esters-aro	1	1	1	1	1	1	4		4	4	4	2	
Phosphoric Acid	1	1	1	1	1	1	4	4		3	2	1	1
Polyvinyl Acetate	3	3	3	3	3	3	1	1		2		1	1
Potassium Acetate	4	4	4	4	4	4	2	1		2	1		
Potassium Chloride	1	1	1	1	1	1	1	1		1	1	1	1
Potassium Hydroxide	1	1	1	1	1	1	2	2		2	2	1	1
Propane	1	1	1	1	1	1	1	1		2	4	1	1
Sea Water	1	1	1	1	1	1	1	1		2	1	1	1
Silicone Grease	1	1	1	1	1	1	1	1		1	1	1	1
Silicone Oil	1	1	1	1	1	1	1	1		1	1	1	1
Silicone oils & greases	1	1	1	1	1	1	1		1	1	1	1	
Sodium Acetate	4	4	4	4	4	4	2	2		2	1	1	1
Sodium Bicarb	1	1	1	1	1	1	1	1		1	1	1	1
Sodium Carbonate	1	1	1	1	1	1	1	1		1	1	1	1
Sodium Chloride	1	1	1	1	1	1	1	1		1	1	1	1
Sodium Hydroxide							2	2		2	1	1	1
Sodium Hypochlorite	1	1	1	1	1	1	2	2		4	2	1	1
Sodium Nitrate	x	x	x	x	x	x	2	2		2	2	1	1
Sodium Salts	1	1	1	1	1	1	1	1		2	1	1	1
Soybean Oil	1	1	1	1	1	1	1	1		3	4	1	1
Stannous Chloride	1	1	1	1	1	1	1			4	1		
Steam < 350F	4	4	4	4	3	3	4	4		4	4	2	2
Steam > 350F	4	4	4	4	4	4	4	4		4	4	3	4
Stearic Acid	2	2	2	2	2	2	2	2		2	2	1	1
Stoddard Solvent	1	1	1	1	1	1	1	1		2	4	2	2
Sulfur Dioxide - wet	4	4	4	4	4	4	4	4		2	4	2	2
Sulfuric Acid	1	1	1	1	1	1	4	4		3	3	1	1
Sulfuric acid - fuming	1	1	1	1	1	1	4	4		4	4	1	1
Synthetic lube oils	2	2	2	2	2	2	2		1	3	4	2	
T-Bromo Ethane	1	1	1	1	1	1	4	4		4	4	3	3
T-Butyl Alcohol	1	1	1	1	1	1	2	2		2	2	1	1
Toluene	1	1	1	1	1	1	4	4		4	4	4	4
Tricresyl Phosphate	2	2	2	2	2	2	4	4		4	4	1	1
Tung Oil	1	1	1	1	1	1	1	1		2	4	1	1
Turbine Oil	1	1	1	1	1	1	2	1		4	4	1	1
Turpentine	1	1	1	1	1	1	1	1		4	4	1	1
Veg Oil	1	1	1	1	1	1	1	1		3	4	1	1
water - detergent	1	1	1	1	1	1	1	1		2	2	1	1
Water - drinking	1	1	1	1	1	1	1	1		2	1	1	1
Water, above 80 C	3	3	3	3	3	3	3		1	3	4	1	
Water, over 180F	1	1	1	1	1	1	1?			4			
Water, to 80C	1	1	1	1	1	1	1		1	2	2	1	
Water, under 180F	2	2	2	2	2	2	1	1		2	1	1	1
Water, w/ inhib., 350F												2	
Water-glycol based	2	2	2	2	2	2	1		2	3	3	1	
Xylene	1	1	1	1	1	1	4	4		4	4	4	4
Zinc Chloride	1	1	1	1	1	1	1	1		1	1	1	1
Zinc Salts	1	1	1	1	1	1	1	1		1	1	1	1

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s under specific conditions. Indepth research and testing is needed prior to design or a																
Carbon (Viton,FPM,FKM)					FLRZ = Fluoraz					SBA = Styrenebutadiene						
Regenerated Nitrile					PEEK = Peak					PA = Polyacrylate						
ene					TEF = Teflon					PU = Polyurethane						
I Rubber					KALR = Kalrez					Sil = silicone						
					CHEM = Chemraz					Fsil = fluorosilicone						
					KEV = Kevlar					HNBR = Elast-O-Lion						
					TPU - Thermoplastic polyurethane					FTPE = Fluolion						
																EPM
PEEK	FTPE, Fluon, Halon or TEF	KALR	CHEM	BUT	KEV	TPU	SBA	PA	PU	Sil	F Sil	Bu	BuDi	IsoP	EPM	EPDM
480	500	500	445	220					185	400	390					220
250	310	260	230	120					85	200	180					120
				250					225	500	400					250
		350		150					100	250	200					150
	-310	32	15	-32					-65	-150	-100					-50
	-190	0	-10	-35					-15	-60	-60					-45
1	2	2	2						1	3	3					
1 to N2	1	2	2						2	4	4					
1	1	2	2				3	4	4	2	4	2	2	2	2	
1	1	1	1				2	4	4	1	2	1	2	2	1	
2	1	1	1				2	4	4	2	4	2	2	2	2	
	1	1	1				4	4	4	2	4	2	2	2	2	
2	1	1	1				4	4	4	4	4	1	4	4	1	
	1	1	1	1					4	3	3					2
	1	1	1	1					1	1	1					1
	1	1	1				1	4	4	1	1	1	1	1	1	
1	1	1	1				1	4	4	1	1	1	1	1	1	
1	1	1	1				1	4	4	1	1	1	1	1	1	
	1	1	1				2	4	4	2	2	2	2	2	1	
	1	1	1				1	4	4	1	1	1	1	1	1	
	1	1	1	1					4	1	1					1
	1	1	1	1					4	2	4					1
		1	1													
	1	1	1	1					4	2	2					1
1	1	1	1	2			2	4	4	2	4	2	2	2	2	2
1	1	1	1				11	4	x	1	4	1	1	1	1	
	2	1	1				4	4	x	1	4	2	4	4	2	
1	1	1	1				1	x	x	x	x	1	x	x	1	
1	1	1	1				1	4	x	x	x	1	x	x	1	
1	1	1	1				1	x	x	2	x	1	1	1	1	
	1	1	1	2					2	2	1					2
1	1	1	1				4	4	4	4	2	4	4	4	4	

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	1	1	1				1	x	x	3	4	2	x	x	1	
	1						4	1	2	2	1	4	4	4	4	
	1	1	1				4	4	4	4	1	4	4	4	4	
1	1	1	1				3	1	4	4	1	4	4	4	4	
	1	1	1				4	4	4	2	4	4	4	4	4	
	1	1	1				4	4	4	x	4	2	4	4	4	2
	1						4	4	4	4	2	4	4	4	4	
1	1						4	4	x	x	x	2	4	x	2	
1	1	1	1				1	1	1	1	1	1	1	1	1	
	1	1	1				1	4	4	x	1	1	1	1	1	
1	1	1	1				4	4	4	x	1	1	4	4	1	
1	1	1	1				4	3	x	x	1	4	4	4	4	
	1	1	1				2	x	1	1	2	1	2	2	1	
	1	1	1				2	1	1	1	1	1	2	1	1	
1	1	1	1				1	1	1	1	1	2	1	1	2	
	1	1	1	4			4	4	4	4	4	2	4	4	4	4
	1	1	1				4	4	4	4	1	4	4	4	4	4
	1	1	1	4					3	4	1					4
	1	2	2				4	4	4	4	1	4	4	4	4	
1	1	3	3				3	4	4	x	2	2	4	4	2	
	1	3	3				4	4	4	x	2	3	4	4	3	
1	1						4	4	4	x	4	2	4	4	2	
1	1	1	1				4	4	4	4	2	4	4	4	4	
	1	3	3				4	4	4	4	2	4	4	4	4	
	1	1	1				4	4	4	x	1	2	4	4	2	
	1	1	1				1	x	x	1	1	1	1	1	1	
	1	1	1			1	2	x	1	2	2	2	2	2	2	
1	1	1	1			1	2	x	x	2	2	2	2	2	2	
1	1						4	1	3	1	1	3	4	4	3	
1	1	1	1				2	4	2	1	1	2	2	2	1	
	1	1	1				4	1	3	4	1	4	4	4	4	
	1	1	1				4	1	2	4	2	4	4	4	4	
	1	1	1				4	x	2	x	x	2	4	4	2	
	1						4	4	4	4	2	4	4	4	4	
1	1	1	1	4			4	1	3	4	2	4	4	4	4	4
1	1	1	1				4	4	4	4	4	2	4	4	2	
	1	1	1	4					4	4	2					4
1	1	1	1				x	x	x	x	x	1	x	x	1	
	1	1	1	4					2	4	3					3
	1	1	1				4	4	4	4	1	4	4	4	1	
	1						2	4	2	2	4	2	2	2	2	
1	1	1	1				4	x	x	x	x	3	4	4	3	
	1	1	1				1	1	1	2	1	1	1	1	1	
2	1	2	2				3	4	4	2	4	2	2	2	2	
1	1	4	4				1	x	x	4	4	1	x	1	1	
	1	1	1				4	1	2	1	1	4	4	4	4	
1	1	1	1	4			4	1	3	4	2	4	4	4	4	4
	1	1	1				4	4	x	x	x	4	4	4	x	
1	1	1	1				4	4	4	4	4	2	4	4	2	
1	1	1	1				4	4	4	4	1	4	4	4	4	
	1	1	1	4					2	4	2					4

Elastomer Data

1	1	1	1				1	4	4	1	1	1	1	1	1	
1	1	1	1				1	4	4	1	1	1	1	1	1	
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		1	1			1										
		1	1			1										
		1	1													
		1	1													
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1	1	1	1				4	1	2	4	1	4	4	4	4	
	1	1	1				4	1	2	4	1	4	4	4	4	
	1	1	1	4					1	4	2					4
1	1	1	1				4	1	1	2	1	4	4	4	4	
	1	1	1	4					2	3	1					4
	1	1	1	4					4	4	1					4
1	1	1	1				4	1	2	4	1	4	4	4	4	
1	1	1	1				3	2	x	4	2	1	3	3	1	
3	1	1	1				2	4	x	4	x	1	4	2	1	
1	1	2	2				2	4	x	1	1	1	2	2	1	
1	1	1	1				4	4	x	3	3	1	4	4	1	
	1	1	1				2	4	4	1	2	1	2	1	1	
1	1	1	1				2	4	4	1	2	1	2	1	1	
		1	1													
1	1	1	1	4			4	1	2	4	1	4	4	4	4	4
	1	1	1	1					4	3	4					1
1	1	1	1				4	1	x	1	1	3	4	4	3	
1	1	1	1				1	x	1	1	1	1	1	1	1	
1	1	1	1				4	4	x	x	x	4	4	4	4	
1	1	1	1				4	4	4	4	4	1	4	4	1	
1	1	1	1			1	4	1	3	4	2	4	4	4	4	
1	1	1	1				4	4	4	4	4	2	4	4	2	
	1	1	1				4	x	x	x	x	2	4	4	2	
	1	1	1	4					2	3	1					4
		1	1													
		1	1													
1	1	1	1				4	2	2	4	2	4	4	4	4	
	1	1	1				4	x	x	4	1	4	4	4	4	
1	1	1	1				4	x	x	4	1	4	4	4	4	
1	1	1	1				4	4	4	4	4	4	4	4	4	
	1	1	1				1	1	1	1	1	1	1	1	1	
	1	1	1	4					4	3	2					4
	1	1	1				4	1	x	1	1	3	4	4	3	
	1	1	1				4	1	x	1	1	3	4	4	3	
1	1	1	1				4	1	x	4	2	4	4	4	4	
1	1	1	1	4			4	1	3	4	2	4	4	4	4	4
1	1	1	1	4			4	1	2	4	1	4	4	4	4	4
1	1	1	1				4	1	4	4	1	4	4	4	4	
	1	1	1	3					2	1	1					3
	1	1	1				4	2	2	2	2	4	4	4	4	
	3	1	1				4	4	4	4	4	4	4	4	4	
1	1	1	1			1	4	1	2	4	1	4	4	4	4	
	1	1	1	1					1	1	1					1
	1	1	1				4	1	4	4	3	4	4	4	4	

Elastomer Data

	1	1	1	2					4	3	3					1
	1	1	1	2					4	3	3					2
1	1	1	1				2	x	x	2	2	2	2	2	1	
	1	1	1													
1	1						4	4	4	4	4	1	4	1	1	
1	1	1	1				1	1	1	1	1	1	1	1	1	
1	1	1	1				2	4	4	3	3	1	2	2	1	
2	1	1	1				4	1	3	4	2	4	4	4	4	
1	1	1	1				1	4	4	1	1	1	1	1	1	
1	1	1	1				1	1	1	3	1	1	1	1	1	
1	1	1	1				1	1	1	3	1	1	1	1	1	
	1	1	1	1					1	4	3					1
1	1	1	1				4	3	3	4	4	1	4	1	1	
1	1	1	1				1	x	x	1	1	1	1	1	1	
1	1	1	1				1	x	x	1	1	1	1	1	1	
1	1	1	1				1	x	1	1	x	1	1	1	1	
1	1	1	1				2	4	2	1	2	1	1	1	1	
1	1	1	1				2	4	4	2	2	2	2	2	2	
1	1	1	1				2	x	x	4	x	1	1	1	1	
1	1	1	1				1	1	1	1	1	1	1	1	1	
	1	1	1				4	1	x	1	1	3	4	4	3	
1	1	1	1				1	x	x	2	1	1	1	1	1	
	1	1	1				4	4	4	3	4	2	4	4	1	
	1	2	2				4	4	4	4	4	4	4	4	3	
1	1	1	1				2	x	x	2	x	2	2	2	2	
	1	1	1				4	1	1	4	1	4	4	4	4	
	1	1	1				4	4	x	2	2	1	4	4	1	
4	1	1	1				3	2	3	4	3	3	3	3	2	
1	1	2	2				4	4	4	4	x	4	4	4	4	
	1	1	1	4					4	3	2					4
	1	1	1				4	4	x	4	2	4	4	4	4	
	1	1	1				2	4	4	2	2	2	2	2	2	
1	1	1	1				4	4	4	4	2	4	4	4	4	
	1	1	1				4	4	4	3	2	1	4	4	1	
	1	1	1				4	x	3	4	2	3	4	4	4	
	1	1	1				4	2	4	4	2	4	4	4	4	
1	1	1	1				4	2	4	4	2	4	4	4	4	
1	1	1	1				4	1	x	1	1	3	4	4	3	
1	1	1	1				2	4	4	1	1	1	2	2	1	
1	1	1	1				1	4	4	1	1	1	1	1	1	
	1	1	1	2					4	1	2					1
	1	1	1								1				1	
	1	1	1	1					4	1	1					1
1	1	1	1				1	4	4	1	1	1	1	1	1	
		1	1													
	1	1	1	1					4	2	2					1
1	1	1	1				4	4	4	4	1	4	4	4	4	
1	1	1	1				1	4	x	x	1	1	1	1	1	
1	1	1	1				1	4	1	1	1	1	1	1	1	

Elastomer Data

Application.														
	Bu = Butyl			FVMQ = Fluorosilic				PET = Ertalyte						
	BuDi = Butadiene			CO E = Epichlorohydrin				PTFE = Fluorosint			ECO = Epichlorhyd			
	IsoP = Isoprene			EA= Ethylene Acrylic				TOR = Torlon,Polypenco			FFKM = Zalak			
	CSM = Cl-sulfo PE			Ny101 = Nylon 101				PPS = Techtron						
	EPDM = ethylene Propylene Diamene							ACM = acrylic						
	PTR = Polysulfide			ACE = Acetal derv.										
			ECO											
CSM	EPDM	PTR	CO E	EA	N-11/12	Ny101	ACE	PET	PTFE	TOR	Ryton or PPS	ACM	FFKM	
220	275		250									300	428	
120	135		150									150	220	
250	300		350									350	482	
150	149		175									175	250	
-34	-65		-34									-4	-13	
-30	-54		-30									-20	-25	
	1?											2		
	2													
3	2	2	x	x	4	2	1	1	1	1	1			
1	2	2	x	x	1	2		2	1	1	1			
3	2	2	o	x	4	3	3	2	1	1	1			
2	2	2	4	x	4									
3	1	1	4	4	3	1	2	2	1	1	1			
4			3									4	1	
2			2									2	1	
1	1	1	1	1		2	1	1	1	1	1			
1	1	1	1	1	4	2	1	1	1	1	1			
1	1	2	x	1	1	1	1	1	1		1			
2	1	2	x	1										
1	1	1	1	1										
1			2									4	1	
3			4									4	1	
	2													
1			2									4	1	
4	2	4	4	4								4	1	
1	1	1	x	4	1	1	4	1	1	3				
2	2	4	x	4	1									
1	1	1	x	x	1									
1	1	x	1	x	1									
1	1	x	x	x										
3			1									1	1	
4	2	2	x	x		4								

Elastomer Data

2		4	x	4										
4	4	1	x	x										
4	3	3	4	x										
2	4	1	1	x	1									
4	4	4	x	x										
4	2	x	x	4										
4		2	x	x										
4		x	x	x										
1	1	1	1	1	1			1	1	1	1			
1	1	4	1	x										
1	1	4	x	x		4	4	1	1	1	1			
4	4	x	x	x	4	1			1		1			
2	1	4	1	1										
1	2	1	1	x										
1	2	3	1	x		1			1	1				
4	2	2	x	4										
4			4									4	1	
4	4	4	x	x										
4			4									3	1	
4	4	4	2	4	4		4		1	1				
4	2	3	2	4	4	4	4							
3	3	4	x	x										
4	2	4	x	x			4		1	1				
4	4	4	x	4	4	4	1		1	1	1			
4		4	x	4										
2	2	4	x	x										
1	1	4	1	1	3	2		1	1		1			
2	2	2	1	1										
2	2	2	1	1										
3	3	4	x	1			1							
1	1	4	x	x	1	2		1	1					
4	4	3	4	x										
4	4	x	x	1										
4	2	2	4	x										
4		1	x	x										
3	4	1	1	1			1	1	1	1	1	1	1	
4	2	4	x	x			1	1	1	1	1			
3			2									4	1	
x	1	x	x	x										
4			4									3	1	
4	4	4	4	x										
2		4	x	x										
4	3	4	x	1										
2	1	1	1	x			2	1	1	1	1	1		
3	2	2	2	x	4	2	1	1	1	1	1	1		
1		1	1	x			1	1	1	1		2		
4	4	1	x	1										
3	4	1	1	1			1	1	1	1	1	1	1	
4	4	2	x	x										
4	2	4	x	x	3	1			1	3	1			
4	4	2	x	3	1									
4			1									1	1	

Elastomer Data

1		2	1	1	3	1	1	1	1	1	1				
1		1	1	1											
4	4	1	x	1		1	1	1	1	1	1				
1	1	1	x	1											
2		1	x	1	1										
2		1	1	1									1	1	
2	4	1	1	1											
2			3										1	1	
4			4										3	1	
3		1	x	1											
2	3	4	4	x	4	2	4	1	1	1	1				
1		4	x	x		4	4	4	2	3			4		
2	1	3	x	x	4	4	4	1	1				1		
3	1	1	2	x		4	3	3	1						
1	1	2	x	1											
1	1	1	1	1		2	1	1	1	1	1				
4	4	2	1	x	1								1	1	
4			4										4	1	
3	3	2	x	x	1	1	1		1			1			
1	1	3	1	1	1	1	1	2	1	4	1				
4	4	x	x	x											
4	1	2	4	4	3	1	2	1	2	1	1				
2	4	1	1	x	1										
4	2	2	4	4	1	1	2	1	1	1	1				
2	2	4	4	x											
4			1										1	1	
4	4	2	1	x	1	1									
4		2	x	x											
4	4	2	x	x	1	1	1	1	1			1			
4	4	4	4	x		3									
1	1	1	x	1											
4			2										4	1	
x	3	4	1	1											
x	3	4	1	1											
4	4	x	x	1											
3	4	1	1	1		1	1	1	1	1	1	1	1	1	
4	4	2	1	x	1								1	1	
4	4	1	x	1				1	1	1	1				
2			1										1	1	
2		4	x	x											
4		4	x	x											
4	4	3	1	1			1	1	1	1	1				
2			2										2	1	
2		1	x	x											

Elastomer Data

4			4									4	1		
4			4									4	1		
2	1	4	x	x	4	4	3	1	1	1	1				
	1														
4		4	x	x		1	1		1	1	1				
1	1	1	1	1		1	1	1	1	1	1				
1	1	2	1	x	4	3	4	3	2	4	1				
2	4	1	1	1	1	1		1	1		1				
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1	1	1	1	1		1	1	1	1	1	1				
1	1	1	1	1		1	1	1	1	1	1				
1			1									1	1		
4	1	4	x	x		2	1								
1	1	3	1	1		1	1	1	1	1	1				
1	1	4	x	1	3	1	1	1	1	1	1				
1	1	3	1	x	1	1	1	1	1	1	1				
1	1	4	2	x	4	3	4	3	2	4	1				
4	1	4	1	x	4	4	4	1	1	1	2				
1	1	x	1	x		1	1	1	1		1				
1	1	1	1	x		1		1	1		1				
3	1	4	1	x											
4		x	x	x		4	4				1				
4	1	4	x	x											
4	2	4	4	x											
2	2	x	2	x	1	1				1			1		
4	4	2	1	x											
3	1	4	x	x		3									
3	4	4	2	x		4	4	3	1						
4	4	4	x	4		4	4	3	1						
4			4									2	1		
4	4	x	x	x											
2	2	2	x	1											
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4	1	2	4	4	1										
3	4	2	x	x											
4	4	1	x	x											
4	4	2	1	x	1	1	1		1	1	1				
x	3	4	1	1		1		1	1	1	1				
2	1	4	1	1		1	1	1	1	1	1				
1	1	4	x	1		1	1	1	1	1	1				
3			3									4	1		
1			2									4	1		
1	1	4	2	1	1	1	1	1	1	1	1				
1			2									4	1		
4	4	2	4	x		1	1	1	1	1	1				
1	1	3	x	x	3	3	4		2		2				
1	1	4	x	x											

