



Rubber ring technical data sheet.

Characteristic	Nitrile	Silicon	Viton	Natural Rubber	HNBR	Ethylene Propylene
Alternative Name		Elastosil R40L/ 80S	Fluorinated hydrocarbon, Fluoroelastomer, TEFP, TetraFluoroEthylene- Propylene		Hi Nitrile Butyl Rubber	EPDM?
Colour	Limited range, mostly black	Limited range				
Resistance to:						
Acetone	Unsatisfactory	Fair				
Acids, dilute	Good	Fair	Fair to Excellent	Excellent		
Acids, concentrated			Poor to Good	Good		Excellent
Alcohol	Good	Good	Good to Excellent	Good		Excellent
bases (alkalis), Conc.	Fair	Fair	Good to Excellent	Fair		Excellent
Benzene	Unsatisfactory	Unsatisfactory				
Benzol			Fair	Poor		
Brake Fluid			Good	Excellent		
Caustic Soda						
Chlorine	Good	Excellent				
Esters						Excellent
Flame	Poor	Good	Fair to Good	Poor		
Fuel, ASTM B at 40 deg C	Fair	Unsuitable	Highest of all rubbers,			

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Gases, liquid petroleum			Excellent	Poor		
Heat,Intermittant	120 deg C	300 deg C	Excellent			
Heat, Continuous	100 deg C	200 deg C	Excellent, highest of all rubbers	Fair		
Hydraulic Fluids			Good to Excellent	Poor to Good		
Hydrocarbons, Chlorinated			Low to Good	Poor		Poor
Kerosene			Good	Poor		
Ketones			Low to Excellent	Good		Excellent
Lubricants, synthetic			Good	Poor		
Methanol, Methyl Alcohol						
Oils, animal			Excellent	Good		
Oil, ASTM No 1 at 100 deg C	Very Good Resistance	good				
Oil, ASTM No 2 at 100 deg C	Good	Fair				
Oils, fuel			Excellent			
Oils, lubricating			Fair to Good			
Oils, Vegetable			Excellent			
oxidation	Good	Excellent	Excellent	Good		
ozone	Fair	Outstanding	Excellent	Poor		Excellent
Refrigerants			Fair to Excellent	Fair to Good		
Sodium Hydroxide						
Steam			Poor to Excellent	Good		
Sunlight			Good to Excellent			
Tear and abrasion	Good	Fair				
Temperature, low	minus20 deg C	minus 40 deg C				
Temperature, High						177 decC
Toluol			Fair			
Water	Good	Good	Good, to Excellent	Excellent		Excellent

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Weathering	Fair	Outstanding	Good to Excellent	Fair		
Other Characteristics and comments						
Approvals	Electrolux, Marconi, General Motors, FDA as Food Quality					
Bonding to rigid materials		Poor	Good	Excellent		Use Chemlock 205/236A or 238
Comments	developed for oil resistant seals in applications where fine finish is desirable					
Odour			Neutral	neutral		
Permeability to Gases	Low	fairly low				
Electrical Strength	Poor	Excellent				
Shelf life	15 yrs if stored correctly					
Hardness Range Shore A	40 - 100 deg	40 80 deg				
Permeability to Gases	Low	fairly low				
Physical Strength	Good	Poor				
Resilience	Good	Good				
Taste			Neutral	poor		