

ELASTOMER QUALITIES SELECTION

Elastomer Quality	Synthetic Natural Rubber	Natural Pure Gum Rubber	Chloro-Butyl Rubber	Nitrile Rubber	Chloro-prene Rubber	Fluoro-Carbon Rubber	Chloro-Sulfonated Polyethylene	Ethylene Propylene
Designation Tradename	NR	PGR	IIR	NBR Buna-N	N Neoprene	FPM Viton(R)	CSM Hypalon(R)	EPDM Nordel(R)
Property								
Temperature of application: - Maximum degree F - Continuous Operating Temp. - Minimum degree F	180 140-150 -60	225 160-180 -75	250 200-210 -60	250 200-210 -40	225 200-210 -40	250 200-210 -10	250 200-210 -40	250 200-210 -60
Resilience or Rebound Rating	Excellent	Excellent	Poor to Fair	Good	Fair-Very Good (Cold) Very Good (Hot)	Fair-Good (Cold) Good-Excellent (Hot)	Fair-Good (Cold) Good (Hot)	Fair to Very Good
Compression Set Rating	Excellent	Excellent	Poor-Good	Good-Excellent	Poor-Good	Good-Excellent	Poor-Fair	Poor-Good
Resistance - Weather & Ozone - Acids - dilute - Acids - concentrated - Alkaline - diluted - Alkaline - concentrated - Hydrocarbons, aliphatic - Hydrocarbons, aromatic - Mineral Oils - Wear - Flame - Heat aging @ 212 degr.F - Electrical	Poor-Fair Fair-Good Poor-Good Fair-Good Fair-Good Poor Poor Poor Excellent Poor Fair to Good Good-Excellent	Poor-Fair Good-Excellent Fair-Good Good-Excellent Fair -Good Poor Poor Poor-Fair Excellent Poor Fair to Good Good-Excellent	Excellent Good-Excellent Fair-Excellent Good-Excellent Good-Excellent Poor Poor Poor Fair-Good Poor Good-Excellent Good-Excellent	Poor-Fair Good Fair-Good Good Poor-Good Good-Excellent Fair to Good Excellent Good-Excellent Poor Good Poor-Fair	Very Good-Excellent Excellent Poor Good Poor Poor-Good Poor-Fair Good-Excellent Very Good-Excellent Very Good-Excellent Good-Excellent Good	Excellent-Outstanding Good-Excellent Good-Excellent Good Poor Excellent Excellent Good Very Good-Excellent Very Good-Excellent Outstanding Good	Excellent-Outstanding Excellent Good-Excellent Good-Excellent Excellent Good-Excellent Good-Excellent Very Good-Excellent Good-Excellent Good-Excellent Good	Good-Excellent Excellent Excellent Excellent Excellent Poor Poor Poor Good-Excellent Poor Good-Outstanding Good-Excellent
Gas Permeability	Good	Fair-Good	Good	Fair-Good	Fair-Good	Good-Excellent	Good-Excellent	Fair-Good
FDA approved grade available	No	No	No	Yes	Yes	No	No	Yes
White Elastomer available	No	No	No	No	Yes	Yes	No	Yes
Standard tubes are re-inforced with Nylon cords; High Temperature (HT) tubes are available with Kevlar reinforcing cords; Teflon lined elastomer tubes are available in some sizes; call for availability								