

Material	Hardness(A)	Temperature (°C)	Advantage	Disadvantage	Application
Silicone	20-95	-40~250	<ul style="list-style-type: none"> · waterproof, Good Insulation · High Transmission, Anti-UV · non-toxic, environmental friendly 	<ul style="list-style-type: none"> · Low tensile strength, Not anti-tearing · Not anti-fuel oil, Not anti-abrasion 	Electronic, Medical, food
NR	20-100	-20~100	<ul style="list-style-type: none"> · Anti-oil, Hydroxide liquids such as ethanol · Anti-abrasion, anti-tensile, flexibility · Resistant alkali but not resistance acid 	<ul style="list-style-type: none"> · Easy Aging · Become sticky when heated · Easy to expansion in mineral oil 	Tire \ Shoes
NBR	30-100	-10~100	<ul style="list-style-type: none"> · Anti-oil \ waterproof · Heat-resistant 	<ul style="list-style-type: none"> · Non anti polar solvent 	
HNBR	60-90	-40~150	<ul style="list-style-type: none"> · Abrasion, tensile, heat, anti-ozone · Anti-corrosion, Anti-chemical · Anti-deformation 	<ul style="list-style-type: none"> · Not resist ethanol \ esters & Aromatic solution · Shorten life time 	For automotive and refining industries
CR	20-90	-40~100	<ul style="list-style-type: none"> · Flexibility, anti-deformation · Fireproof and flame resistant · Anti-chemical, Anti-UV, Anti-Ozone 	<ul style="list-style-type: none"> · Raw rubber poor storage stability and will generate sulfur · Not resistance strong acid 	For household appliances
IR	20-100	-50~120	<ul style="list-style-type: none"> · Less impurities, transparent color · Anti-aging 	<ul style="list-style-type: none"> · absorbency 	For a part of medical equipment
FKM (VITON)	60-90	-15~200	<ul style="list-style-type: none"> · Anti-oil · Anti-Ozone, Heat-resistant · electrical insulation 	<ul style="list-style-type: none"> · Expensive, not resist strong alkali · Not low temperature resistance · Not resist esters, Ketones 	For high temperature, drug resistance and so on environment
EPDM	40-90	-55~125	<ul style="list-style-type: none"> · High temperature resistance, anti-aging, anti-Ozone, flexibility · Anti ethanol and esters · Anti-Ozone & oxidation 	<ul style="list-style-type: none"> · Not Anti-oil 	For wiper strips, gas-kets, etc.

Characteristics

Characteristic comparison	◎ Well ○ Good △ Ok × Bad				
	Acid	Base	Ethanol	Benzene	Ketone
Silicone	○	◎	◎	×	○
NR	×	○	×	×	×~△
NBR	△	○	◎	×	×
HNBR	◎	◎	◎	×	×
CR	△	◎	◎	×	△~○
IR	×	○	◎	×	△~○
FKM(VITON)	◎	×	◎	△	×
EPDM	○	○	○	×	◎