

Properties table - 2

	Polyvinylchloride PVC	Polyurethane rubber PUR	Nature rubber NR	Styreen butadiene rubber SBR	Ethylene propylene diene monomer rubber EPDM	Acrylnitril butadiene rubber (nitrile) NBR	Chloroprene rubber (Neoprene) CR	Silicone rubber SI (Q)	Cross-linked polyethylene UPE / XLP
Maximum temperature °C									
- Dry air	+60°C	+80°C	+70°C	+70°C	+120°C	+90°C	+90°C	+180°C	+66°C
- Hot oil	-	+60°C	-	-	-	+120°C	+60°C	-	+60°C
- Hot water	+60°C	+40°C	+70°C	+80°C	+140°C	+90°C	+70°C	+100°C	+66°C
Minimum temperature °C	-10°C	-20°C	-40°C	-30°C	-50°C	-20°C	-30°C	-60°C	-50°C
General resistance to:									
- Mineral oils and fats	moderate	good	low	low	low	excellent	good	moderate	good up to +60°C
- Animal / vegetable oils and fats	moderate	good	low	low	good	excellent	good	moderate	good
- Diluted acids	good	moderate	moderate	moderate	excellent	good	excellent	excellent	excellent
- Concentrated acids	low	low	moderate	moderate	good	moderate	good	moderate	excellent
Resistance to certain solvents:									
Aliphates; gasoline, etc.	low	moderate	low	low	low	excellent	moderate	low	good
Aromatics; toluene, benzene, etc.	low	low	low	low	low	good	moderate	low	good
Esters, ethers, alcohol	low	low	good	good	excellent	none	moderate	moderate	excellent
Chlorinated; tetra, tri, etc.	low	low	low	low	moderate	moderate	low	low	good
Resistance to water absorption	good	excellent	excellent	good	excellent	good	good	excellent	excellent
Resistance to sunlight + ozone	moderate	excellent	low	low	excellent	moderate	excellent	excellent	good
Elasticity	good	good	excellent	good	moderate	moderate	moderate	good	good
Dimensional stability	low	moderate	good	good	good	good	good	moderate	low
Wear resistance	good	excellent	excellent	excellent	good	good	excellent	low	moderate
Gas permeability	low	moderate	moderate	moderate	moderate	low	low	moderate	low
Electrical isolation	good	good	good	good	excellent	none	moderate	excellent	good
Hardness range (Shore A)	60 - 85	50 A - 75 D	30 - 90	40 - 90	40 - 90	40 - 95	40 - 95	40 - 85	-
Flame resistance	none	none	low	low	low	low	good	moderate	none
Traction	20 - 30 Mpa	20 - 30 Mpa	18 - 30 Mpa	15 - 25 Mpa	10 - 20 Mpa	15 - 20 Mpa	15 - 20 Mpa	10 - 20 Mpa	30 - 35 Mpa
Properties	chemical resistant, light in weight, colourfast, food resistant, non-toxic	elastic, high mech. strength, wear-resistant, ozone and weather-resistant, oil and gasoline-resistant, gas-tight and notch-resistant, chemical resistant	elastic, cold-resistant, wear-resistant, resistant to low-concentration acids, resistant to water and low-temperature alcohol	resistant to oil-containing air, water, industrial water, glycol	heat resistant, current resistant, ozone and aging resistant, UV resistant and chemical resistant	resistant to mineral oil products, fats and fuels, inorganic acids at low concentrations and temperatures	chemical resistant, ageing resistant, ozone resistant, weather resistant, flame resistant	temperature resistant, cold resistant, ozone resistant, odourless and tasteless	chemical resistant, oxidation resistant, stable, gas-tight
Thermal properties	-35°C / +70°C	-30°C / +90°C	-60°C / +80°C	-50°C / +100°C	-50°C / +160°C	-30°C / +100°C	-45°C / +100°C	-60°C / +200°C short term up to 250°C	-50°C / +90°C