

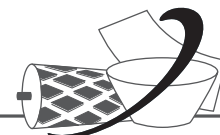
# Technical information

## Properties of basic elastomers

Designation		Areas of application	Properties	Resistance
NR	Natural Rubber	<ul style="list-style-type: none"> <li>› Standard quality for general technical and mechanical areas of application as well as technical items and consumer goods of all kinds</li> </ul>	<ul style="list-style-type: none"> <li>› Very good elastic and mechanical properties</li> <li>› Very good abrasion characteristics</li> </ul>	<ul style="list-style-type: none"> <li>› Medium resistance to seawater, bases of medium concentration</li> <li>› Not resistant to oil, acid, petrol and ozone</li> </ul>
SBR	Styrene-Butadiene-Rubber	<ul style="list-style-type: none"> <li>› Standard quality for general technical and mechanical areas of application as well as technical items and consumer goods of all kinds</li> </ul>	<ul style="list-style-type: none"> <li>› Good mechanical properties</li> <li>› Excellent abrasion characteristics</li> <li>› Good resistance to permanent deformation</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to Freon, glycols and brake fluids</li> </ul>
NRV	Natural rubber with wear protection	<ul style="list-style-type: none"> <li>› High-grade technical quality with very good elastic and mechanical properties and additional wear protection for increased abrasion resistance</li> <li>› Standard quality for general technical and mechanical areas of application as well as technical items and consumer goods of all kinds</li> </ul>	<ul style="list-style-type: none"> <li>› Very good elastic and mechanical properties</li> <li>› High stretching ability</li> <li>› Very good abrasion characteristics</li> </ul>	<ul style="list-style-type: none"> <li>› Medium resistance to seawater, acids and bases of medium concentration</li> <li>› Not resistant to oil, acid, petrol and ozone</li> </ul>
NBR	Nitrile Butadiene Rubber	<ul style="list-style-type: none"> <li>› Resistant quality (particularly to oils) for medium to high stress</li> <li>› Is used for seals, O-rings, valves, membranes, hoses, clutches, gas- and airtight</li> </ul>	<ul style="list-style-type: none"> <li>› Good mechanical properties</li> <li>› Excellent gas- and airtight</li> <li>› Good abrasion resistance</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to oils, grease as well as fuels</li> <li>› Good resistance to animal and vegetable fats as well as hydrocarbons and gases</li> </ul>
EPDM	Ethylene-Propylene-Dien-Monomer	<ul style="list-style-type: none"> <li>› Resistant quality (particularly to weather and ozone) for medium to high stress</li> <li>› Limited suitable for use in conjunction with most acids and alkaline solutions</li> <li>› Suitable for seals, profiles, cable sheathing, weather-, heatproof and sea water resistant items</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to permanent deformation</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to water and glycols, aggressive chemicals and oxidation</li> <li>› Very good resistance to steam of up to 150 °C, high temperatures and ozone</li> <li>› Not resistant to oil, grease and petrol</li> </ul>
EPM	Ethylene-Propylene-Monomer	<ul style="list-style-type: none"> <li>› Resistant quality (particularly to weather and ozone) for medium to high stress</li> <li>› Also suitable for use in conjunction with most acids and alkaline solutions</li> <li>› Suitable for seals, profiles, cable sheathing, weather-, heatproof and sea water resistant items</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to permanent deformation</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to water and glycols, aggressive chemicals and oxidation</li> <li>› Very good resistance to steam of up to 150 °C, high temperatures</li> </ul>

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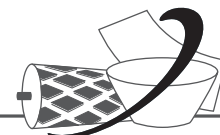
# Technical information

## Properties of basic elastomers

Designation		Areas of application	Properties	Resistance
CR	Chloroprene Rubber	<ul style="list-style-type: none"> <li>› Resistant quality (particularly to weather and ozone) for medium to high stress</li> <li>› Also suitable for use in conjunction with most acids, alkaline solutions and oils</li> <li>› Used for the production of conveyor belts, seals, hoses, roller coatings, linings, window and building profiles, fan belts</li> </ul>	<ul style="list-style-type: none"> <li>› Good flame resistance</li> <li>› Self-extinguishing possible</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to ozone and weather, Freon and seawater</li> <li>› Good resistance fats as well as to animal and vegetable fats</li> <li>› Light resistance and flame resistance</li> </ul>
VMQ	Vinyl-Methyl-Polysiloxan (silicone)	<ul style="list-style-type: none"> <li>› Used for increased requirements</li> <li>› Medical and pharmaceutical items</li> <li>› Food hoses</li> <li>› Seals used for medical equipment</li> </ul>	<ul style="list-style-type: none"> <li>› Very good heat resistance</li> <li>› Very good elasticity at low-temperatures</li> <li>› Non-toxic when in contact with food products</li> <li>› Very good electro-insulating properties</li> </ul>	<ul style="list-style-type: none"> <li>› Good resistance to salt solution and water at 100 °C as well as weather and ozone resistant</li> <li>› Good resistance to minerals, animal and vegetable fats, alcohols and glycols</li> </ul>
PU	Polyurethane Rubber	<ul style="list-style-type: none"> <li>› Seals</li> <li>› Damping elements</li> <li>› Membranes</li> <li>› Pulley</li> <li>› Gear wheels</li> <li>› Rolls</li> </ul>	<ul style="list-style-type: none"> <li>› Excellent wear performance</li> <li>› Exceptionally high tensile strength</li> <li>› High elasticity</li> </ul>	<ul style="list-style-type: none"> <li>› Resistant to oxygen, ozone, mineral oil and fats</li> </ul>
IIR	Isobutylene-Isoprene-Rubber	<ul style="list-style-type: none"> <li>› Car hoses</li> <li>› Seals</li> <li>› Membranes</li> <li>› Rubberised fabric</li> <li>› Steam hoses</li> <li>› Cable insulation</li> <li>› For application where low gas permeability and good heat as well as ageing resistance is required</li> </ul>	<ul style="list-style-type: none"> <li>› Low gas permeability and low elasticity</li> <li>› Good electrical insulating performance</li> </ul>	<ul style="list-style-type: none"> <li>› Good weather and ozone resistance</li> <li>› Particularly suited for aggressive chemicals, hot water and water vapour</li> <li>› Good resistance to acids and alkalis</li> <li>› Not resistant to oil, acid, petrol and ozone</li> </ul>
FPM / FKM	Fluoro-Rubber	<ul style="list-style-type: none"> <li>› For special applications in the automotive as well as the aviation and space industry</li> <li>› Seals, moulded parts and hoses with a load of up to 200 °C and/or in contact with lubricants, low flammable hydraulic fluids and aggressive chemicals</li> </ul>	<ul style="list-style-type: none"> <li>› Excellent chemical and thermal resistance to oil and solvents</li> <li>› High resistance to permanent deformation</li> <li>› Very good resistance to chlorinated aromatic and aliphatic solvents as well as fuels</li> </ul>	<ul style="list-style-type: none"> <li>› Resistant to mineral oil as well as to animal and vegetable fats</li> <li>› Very good resistance to chlorinated aromatic and aliphatic solvents as well as fuels</li> </ul>
FFPM / FFKM	Perfluoro Rubber	<ul style="list-style-type: none"> <li>› For special applications in the automotive as well as the aviation and space industry</li> </ul>	<ul style="list-style-type: none"> <li>› Excellent chemical indifference</li> <li>› May be used under extreme conditions</li> <li>› Very good heat resistance of up to 320 °C</li> </ul>	<ul style="list-style-type: none"> <li>› Excellent chemical resistance</li> <li>› Temperature resistance of up to 350 °C for a limited time</li> </ul>

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