

International Symbol	NBR	CR	FPM FKM	TPE	PUR
Brand Name (e. g.) Chemical Name	Perbunan® Acrylonitrile-butadiene rubber	Neoprene® Chloroprene rubber	Viton® Fluorine rubber Fluorine caoutschoucouc	SANTOPRENE® Technopolymer rubber	Bayflex® Polyurethane
Hardness [Shore A]	25 to 95	30 to 90	65 to 90	55 to 87	65 to 90
Temperature Resistance short-term long-term	-40° to +150° C -30° to +120° C	-30° to +150° C -20° to +120° C	-30° to +280° C -20° to +230° C	-40° to +150° C -30° to +125° C	-40° to +130° C -25° to +100° C
Tensile Strength [N/mm²]	25	25	20	8,5	20
Wear / Abrasion Resistance	good	good	good	good	excellent
Resistance to:					
Oil, Grease	outstanding	good	good	good	very good
Solvents	good in part	good in part	very good	outstanding	satisfactory
Acids	restricted	good	very good	outstanding	not suitable
Caustic Solutions	good	very good	very good	outstanding	not suitable
Fuels	good	slight	outstanding	good	good
General	NBR is a synthetic special rubber for rubber parts with high requirements for resistance to swelling when in contact with oils and fuels. Standard material for O-rings.	CR is one of the most frequently used synthetic rubbers with a wide range of applications for parts which require exceptional resistance to ageing, atmospheric and environmental influences.	FPM is unmatched for applications with contact to fuels, oils, solvents, as well as many acids and caustic solutions; resistant to atmospheric and environmental influences. Due to its high price its use is restricted to high quality rubber parts which are exposed to extremely heavy wear.	SANTOPRENE® is a technopolymer rubber, the performance characteristics of which are comparable to those of many customary vulcanised special rubbers. SANTOPRENE® is a multi-purpose material with outstanding dynamic fatigue life and excellent resistance to ozone and atmospheric influences (environmental influences).	PUR is known for exceptionally good mechanical characteristics with very good resistance to atmospheric and environmental influences. In addition, the extreme resistance to tearing and to wear, should also be mentioned.

The characteristics described should be treated as guidelines only. No guarantee is made. The exact conditions of use have to be taken into account individually.