HERORUB

ADVANTAGES AND LIMITATIONS OF SOME ELASTOMER TYPES

RUBBER TYPE	NAME	MAIN ADVANTAGES	LIMITATIONS
NR	**Natural Rubber (cis-polyisoprene)**	• Good dynamic prop. • Good tensile and tear strength • Good abrasive resistance	• Poor resistance to chemicals and oil substances • No longtime exposure to sunlight, ozone and heat
SBR	**Styrene-butadiene Rubber**	• Good tensile strength, dynamic prop. and abrasive resistance • Good substituent for NR (but sometimes more cost-efficient)	• Poor resistance to chemicals and oil substances • No longtime expo-sure to sunlight, ozone and heat
BR	**(poly-)Butadiene Rubber**	• Excellent dynamic properties • Good cold resistance • Good tear strenght	• Poor resistance to chemicals and oil substances • No longtime expo-sure to sunlight, ozone and heat
EPDM	**Ethylene Propylene Diene Monomer**	• Excellent resistance to ozone, oxidants and weather (water) conditions • Good heat resistance • Excellent insulator • Good chemical resistance (not oil)	• Poor resistance to oil substances • Less mechanical properties compared to NR
CR	**Chloroprene Rubber (Neoprene)**	• Good resistance to ozone, weather condi-tions (water) and sunlight • Good chemical and medium oil resistance • Good high temperature resistance • Good all-round rubber	• More expensive than general purpose synthetic rubbers • No resistance to strong oxidizing acids, esters, ketones, chlorinated – and aromatic hydro-carbons
NBR	**(Acrylo-)Nitrile Butadiene Rubber**	• Good oil and solvent resistance • Good heat resistance • Good mechanical properties • Good resistance to gaspermeability	• Not good resistance to ozone, ketones, esters, aldehydes and chlorinated hydro-carbons • Higher price only justified when oil resistance is required
HNBR	**Hydrogenated Nitrile Butadiene Rubber (Therban)**	• Very good heat and low temp. resistance • Good oil and solvent resistance • Good ozone and weather resistance • Good mechanical properties	• High cost
MVQ	**Methyl Vinyl Silicone Rubber (Silicoon)**	• Excellent heat resistance • Very good low temperatures resistance • Good insulator	• Higher price only justified when excellent heat resistance is required • Low tensile strength
FPM	**Fluorpolymer (Viton)**	• Excellent heat resistance • Excellent chemical, ozone, weather, oil and solvent resistance • Good resistance to gaspermeability	• Very high price • Intermediate mecha-nical properties

IIR	**Isobutene-Isoprene Rubber (butyl rubber)**	• Excellent resistance to gaspermeability • Good resistance to chemical, ozone, weather and oil	• Intermediate mechanical properties
CSM	**Chlorosulphonated Polyethylene (Hypalon)**	• Good heat resistance • Good ozone and weather (water) resistance • Good chemical resist. • Color-proof • Excellent abrasive resistance	• Intermediate oil resistance

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