



Selection aid for elastomeres Auswahlhilfe für Elastomere

	Abbreviation	Trade names, e. g.	Hardness range (Shore A)	Resistance to (medium)							Mechanical properties (for room temperature)								
				Fuel	Alkaline solutions X ₁	Light	Mineral oil	Acids X ₂	Water	Weather and ozone	Temperature stability	Abrasion resistance	Breaking elongation (high)	Rebound elasticity (high)	Tear resistance	at high temperatures	at low temperatures	Tensile strength	Impermeability to gas
Natural rubber	NR	SMR	30-90	6	2	4	6	4	5	4	-60 +80	3	1	1	2	5	2	1	5
Styrene butadiene rubber	SBR	Buna-SB	35-95	5	2	4	5	4	5	4	-50 +100	3	2	3	3	4	3	2	4
Butyl rubber	IIR	Polysar-Butyl	30-80	5	1	3	6	1	2	3	-40 +120	4	1	6	3	2	2	3	1
Ethylene propylene diene rubber	EPDM	Buna AP Keltan	25-90	6	1	2	5	1	1	1	-50 +130	3	3	2	3	3	3	3	4
Silicone rubber	VMQ	Elastosil Silastic	10-85	5	6	1	2	4	5	1	-80 +250	5	4	3	4	1	1	4	6
Chloroprene rubber	CR	Baypren Neoprene	25-90	3	2	3	3	2	3	2	-40 +100	3	2	3	2	4	4	2	3
Nitrile rubber	NBR	Perbunan Krynac	20-95	2	6	4	1	2	2	5	-30 +100 +130	2	2	4	3	3	4	2	2
Fluorine rubber	FKM	Viton Fluorel	50-90	1	1	1	1	1	3	1	-25 +200 +230	4	3	6	4	1	5	3	1
Polyacrylate and ethylene acrylate rubber	ACM/AEM	Hycar/Vamac	50-90	3	5	4	1	3	6	2	-25 +150	4	3	6	4	3	4	3	3
Epichlorhydrin rubber	CO/ECO	Herclor Hydrin	40-90	2	2	4	1	1	2	1	-40 +140	3	3	6	4	3	4	3	2
Chlorosulfonated polyethylene	CSM	Hypalon	45-90	3	2	1	3	1	3	1	-20 +120	3	3	5	3	5	5	3	3
Polynorborene rubber	PNR	Norsorex	10-80	6	6	4	6	6	4	4	-45 +90	4	2	6	4	3	4	2	4
Polyurethane rubber polyester urethane	EU/AU	Adiprene Urepan	55-90	2	6	2	2	2	6	2	-30 +80/ +110	1	2	3	1	4	4	1	2
Hydrogenated nitrile rubber	HNBR	Therban Zetpol	40-90	1	2	3	1	4	1	3	-30 +160	1	3	4	3	1	4	1	2

1 excellent
2 good
3 satisfactory

4 pass
5 insufficient
6 very insufficient

X¹ = Basis NaOH 50% with 50 °C
X² = Basis H²SO₄ 25% with 50 °C

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