RUBBER PROPERTIES

Rubber Type	Abr.	Hardness RHD	Tensile strength Mpa	Elongation %	Temperature C °	Oil res.	Ozone res.	Water res.	Abrasion res.	Petrol	Acid	Base	Permea-bility	Compres-sion Set	Resil-ience
Natural	NR	30 - 90	3 - 25	100 - 600	-50° +80°	2	4 - 5	4	2 - 4	1	1	2	2	2	5
Styrene–Butadiene	SBR	50 - 90	3 - 20	100 - 500	-40° +100°	2	4 - 5	5	2 - 4	1	1	2	2	3	3
Butyl	IIR	40 - 80	3 - 15	100 - 800	-40° +130°	2	2 - 3	5	3 - 4	1	3	2	5	2	1
Ethylene Propylene Diene Monomer	EPDM	50 - 80	3 - 18	100 - 500	-40° +130°	1 - 3	1	5	3 - 4	1	2	2	2	2	2
Acrylonnitrile - Butadiene	NBR	40 - 90	3 - 18	100 - 400	-40° +110°	4 - 5	2 - 5	5	2 - 4	3	3	1	3	3	3
Chloreprene	CR	30 - 90	3 - 20	100 - 500	-40° +110°	3	2 - 3	4	3 - 4	2	3	2	3	2	3
Chlorosulphonated Polyethylene	CSM	60 - 80	3 - 13	100 - 400	-40° +130°	3	1	1	3 - 4	–	–	–	–	–	–
Fluoro	FPM	60 - 90	7 - 15	100 - 300	-30° +200°	5	1	5	3 - 4	5	5	3	5	3	2
Epichlorohydrin	ECO	40 - 90	3 - 18	100 - 300	-40° +130°	4	1 - 2	4	2 - 4	3	5	–	5	–	–
Acrylic	ACM	60 - 80	3 - 13	100 - 250	-30° +200°	4 - 5	1	1	3 - 4	–	–	–	–	–	–
Ethylene Acrylic Rubber	AEM	45 - 90	3 - 13	100 - 250	-40° +150°	5	5	3	3	1	2	3	2	2	2
Urethane	AU	60 - 100	15 - 30	200 - 800	-20° +80°	4	1	1	1 - 2	–	–	–	–	–	–
Fluorosilicone	MFQ	40 - 80	3 - 18	–	-60° +180	4	5	4	1 - 2	3	3	1	3	2	3
Hydrogenated Nitrile Butadiene	HNBR	40 - 90	30	–	-40° +130°	5	3	5	3 - 4	3	3	2	4	2	3
Silicone	Q	30 - 80	–	–	-80° +200°	3	5	2	1	1	1	1	1	5	5

The indicated values show how well the Rubber type performs:
1 is worst and 5 is best
– no data available

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