

# ELASTOMER MATERIAL - SUMMARY

No.	International abbreviation	DMM	Chemical Name	Trade Name	Specific Properties	Guide line forttemperature range
1	NR	3.5		Natural rubber	High mechanical strength and elasticity	-40 TO +80 C
2	SBR	4-	styrene-butadiene rubber	Buna	Good resistance to W- in alkalis and WM	-40 TO +80 C
3	IR	5-	Isoprene rubber	Natsyn	Very good mechanical strength and elasticity	-50 TO +80 C
4	EPDM	5-	Ethylene propylenedi-ene terpolymer	Kaftan Buna	Very good ozone resistance e.g. used for washing and dish washer machine gaskets	-40 TO +140 C
5	PNR	8	Polynorborene rubber	Norsorex	Can be made very soft	-40 TO +80 C
6	NBR ("Nitrile")	7-	Acrylonitrile butadiene rubber	Parbunan	Good swelling resistance especially in allphatic hydrocarbons oil and grease	-30 TO +120 C
7	11R	7-	Isobutene Isoprene rubber	Polysarbutyl	Little gas permeability. High damping behaviour	-30 TO +140 C
8	CR	8.5	Chloroprene rubber	Baypren Neoprene	Non flammable, good weathering resistance	-30 TO +120 C
9	CSM	8.5	Chloro sulphenyl polythene	Hypalon	Swelling resistance in combination with good ozone and weathering resistance	-30 TO +130 C
10	ECO	14-	Epichlohydrin copolymer	Hydrin Herclor	Good oil and heat: resistance, good damping behaviour	-30 TO +130 C
11	ACM	16-	Ethyl acrylate copolymer	Hycar	Excellent: resistance in oil at higher temperatures	-25 TO +140 C
12	SI	18-	Silicone rubber	Silopren Silastic	Thermal resistance (dry heat), good dielectric properties	-60 TO +200 C
13	LSR	23-	Liquid Silicone rubber	Silopren Silastic	Thermal resistance (dry heat), good dielectric properties	-60 TO +200 C
14	HNBR	60-	Hydrogenerated acrylonitrile butadiene rubber	Therban	Very good resistance against oils containing additives, very good hot air resistance, good low temperature behaviour	-30 TO +150 C
15	PPM normal (Fluor Polymer)	120-	Vinylidene fluoride-hexafluoropropylene copolymer	Viton Fluorel Tecnoflon	High temperature resistance & very good chemical stability	-25 TO +230 C
16	FPM M 15 (Fluor Polymer)	190-	Vinylidene fluoride-hexafluoropropylene copolymer	Viton Fluorel Technoflon	High temperature resistance & very good chemical stability additionally little swelling in M-15 fuel and lead- free fuel	-25 TO +230 C
17	FVMQ	250-	Fluor Silicone	Silastic	Very good swelling resistance in oil and fuels with good cold flexibility	-60 TO +200 C