MATERIAL NAME	Polyvinyl chloride	Polyurethane Rubber	Nature- Rubber	Styreen Butadiene Rubber
MATERIAL GROUP OF THE HOSE INNER LAYER	PVC	PUR	NR	SBR
Max. Temperature range °C -dry air	+60°C	+80°C	+70°C	+70°C
- Hot oil		+60°C		
- Hot water	+60°C +40°C		+70°C	+80°C
Minim. Temperature range °C	-10°C	-20°C	-40°C	-30°C
General resistance to:			40 C	30 C
- mineral oils and fats	moderate	well	low	low
- animal and vegetable oils	moderate	well	low/moderate	low/moderate
and fats - Acids diluted	well low/moderate	moderate low	moderate/good moderate/good	moderate/good moderate/good
concentrated	10W/Moderate	iow/moderate low		moderate, good
- Solvents Alifate, gasoline, etc.	low	moderate/good	low	low
aromatics; toluene, benzene, etc.	low	low	low	low
esters, ether, alcohol chlorinated; Tetra, Tri, etc.	low low	low low	well low	well low
- Water absorption	well	very well	very well	good/very good
- Sunlight + Ozone	low/good	very well	low	low/moderate
Elasticity	well	well	excellent	well
Dimensional stability	low	moderate	well	well
Wear resistance	well	excellent	excellent	very well
Permeability	low	quite small	quite small	quite small
Electrical Insulation	well	well	good/very good	good/very good
Hardness range (Shore A)	60 - 85	50 A - 75 D	30 - 90	40 - 90
Flame resistance	bad	bad	low	low
Tensile strength	20 - 30 Mpa	20 - 30 Mpa	18 - 30 Mpa	15 - 25 Mpa
specific characteristics	Resistant to chemicals, light in weight,	elastic, high mechanical strength,	elastic, cold resistant, wear	oil-containing air, Water, industrial
	colourfast, food safe	wear resistant, ozone and oxidation re-	resistant, Acids with low.	water, Glycol
	(option) physiologi-	sistant. Oil and petrol	concentration.	, i
	cally harmless	resistant, gastight and notch-tough,	Water and Alcohol with low	
		chemical	temperature	
		permanent		
		-30°C / +90°C		
thermal attributes	-35°C / +70°C	-30 C / +90 C	-60°C / +80°C	-50°C / +100°C

Ethylene Propylene	Acrilonitrile buta- diene	Chloroprene Rubber (neoprene)	Silicones Rubber	networked Polyethylene
Rubber	Rubber (nitriles)			
EPDM	NBR	CR	SI (Q)	UPE / XLPE
+120°C	+90°C +120°C	+90°C +60°C	+180°C	+66°C +60°C
+140°C	+90°C	+70°C	+100°C	+66°C
-50°C	-20°C	-30℃	-60°C	-50°C
low	excellent	well	moderate	good up to 60°C
well	excellent	well	moderate	well
excellent	well	excellent	excellent	excellent
well	moderate/good	well	moderate	excellent
			1.	. 11
low low	excellent well	moderate/good moderate	low low	well well
excellent	bad	moderate/low	moderate	excellent
moderate/low	moderate	low	low	well
excellent	well	well	excellent	very well
awarded	moderate	excellent	excellent	well
moderate/good	moderate/good	moderate/good	well	well
well	well	well	moderate	low
well	well	very well	low	moderate
quite small	low	low	quite small	low
excellent	bad	moderate/good	excellent	well
40 - 90	40 - 95	40 - 95	40 - 85	
low	low	well	moderate	bad
10 - 20 Mpa	15 - 20 Mpa	15 - 20 Mpa	10 - 20 Mpa	30 - 35 Mpa
Heat resistant,	petroleum products,	Resistant to chemicals,	Temperature resistant	Chemicals-
Steam resistant,	Greases and fuels	ageing-,	Resistant to cold,	consistent,
Ozone Ageing and	inorganic	Ozone and	Ozone resistant,	Resistant to oxidation,
UV-resistant,	Acids at low.	Weatherproof	odour and	stable,
Chemicals-	concentration and	flame retardant	tasteless	gastight
permanent	Temperature			
			6005 / 20005	
E0°C / 110°C	20% / 100%	AE9C / 11009C	-60°C / +200°C	E0°C / 100°C
-50°C / +160°C	-30°C / +100°C	-45°C / +100°C	short-term up to 250°C	-50°C / +90°C