

## TESNILA GK d.o.o. LIST OF MATERIALS

Name (chem. identity)	Abbrev. acc. to ASTM	Trade names (examples)	Properties vulcanised rubber/polymer	Application examples
Natural rubber (cis 1.4 Polyisopren of bio synthesis)	NR	SMR Crepe	General purpose rubber with balanced physical properties. Non-aging and weather resistant only with suitable stabilization	Tyres, conveyor belts, moulded articles of all kinds
Isoprene rubber (cis 1.4 Polyisoprene from technological synthesis)	IR	Natsyn Cariflex IR	Like NR	Like NR
Butadiene rubber or Polybutadiene (Polybutadiene)	BR	Buna CB	General purpose rubber almost exclusively used in cuttings. High elasticity, drive stability, and cold flexibility.	Compound element use similar to NR
Butadiene/styrene rubber (copolymer made of butadiene/styrene)	SBR	Buna SB Cariflex S	Frequently used general purpose rubber. Non-aging and weather resistant only with suitable stabilization.	Tires belts, moulded and extrusion articles
Chloroprene (trans 1.4 polychlorbutatiene)	CR	Neoprene Baypren	Rubber with a relatively high resistance to flames, weather, and aging. Medium resistance to oil and fuel.	Belts, v-belts, moulded and extrusion articles.
Nitrile rubber (copolymer made of butadiene (Acrylnitrile)	NBR	Perbunan Chemigum	High swelling resistance to oil, fat, and fuel. Degrees of resistance, elasticity and cold flexibility depend on the acrylnitrile content. There are also hydrogenated types (HNBR) with higher resistance to ozone and aging.	Oil, fat and fuel resistant articles, roller coatings, hoses.
EPDM rubber (terpolymere made of ethylene/propylene and diene component)	EPDM	Buna AP Keltan Dutral	High resistance to aging, weather and heat. High resistance to boiling water, steam, washing and flushing agent.	Moulding and extrusion articles.
Butyl rubber (copolymer made of isobutylene and little isoprene)	IIR	Butyl rubber Bucar	High air-tightness, good damping properties and heat resistance. There are also special halogenated types (BIIR, CIIR).	Car and bicycle tubes, antivibration components
Chlorhydrine rubber (polyepochlorhydrine, copolymerizate with ethylene oxide where appropriate)	CO ECO	Hydrin	High resistance to oil, fat, fuel, heat and oxygen.	Oil, fat and fuel resistant articles.
Chlorosulfonated polyethylene	CSM	Hypalon	Similar to EPDM yet better swelling resistance to oil, fat and fuel. High resistance to chemicals and flames.	Moulding and extrusion articles, roller coatings, container linings.
Acrylate rubber (polyacrylate)	ACM	Hytemp	Excellent resistance to oil, fat and fuel especially to hypoid oil. Low cold flexibility.	Moulding articles
Fluoro rubber (copolymer made of fluorinated compounds )	FPM	Viton Fluorel Technoflon	Expensive special rubber with very high resistance to chemicals and heat.	Moulding articles, container linings.
Silicone rubber (polymethylsiloxane with phenyl and/or vinyl groups where appropriate)	M MPQ MVQ	Silopren Sila stic	High resistance to aging, weather and heat. Extremely high cold resistance. Medium resistance to fuel and oil.	Food qualities, medical pharmaceutical articles.