

# Materials



Material	Abbreviation	Key VDE	Working temperature	Tensile strength N/mm <sup>2</sup>	Elongation at tear %	Water absorption (20 °C) %	Weathering resistance	Fuel resistance	Oil resistance	Burning behaviour
polyvinyl chloride	PVC	Y	-30 / +70	10-25	150-300	0,4	moderate	moderate	good	self-extinguishing
polyvinyl chloride thermoresistant high-pressure	PVC	Y	-20 / +90	10-25	150-300	0,4	moderate	moderate	good	self-extinguishing
polyethylene low pressure	LDPE	2Y	-50 / +70	20-30	500	0,1	good	slight	moderate	flammable
polyethylene	HDPE	2Y	-50 / +100	30	800	0,1	moderate	slight	moderate	flammable
polyurethane	PUR	11Y	-40 / +90/100	30-45	300-600	1,5	very good	good	good	self-extinguishing
polyamide	PA	4Y	-40 / +80	30-180	200-300	1-2	good	moderate	good	flammable
polybutylene-terephthalate	PBTP		-60 / +110	50-100	50-300	0,5	good	good	good	flammable
polytetrafluorethylene	PTFE	5Y	-190 / +260	14-40	240-400	0,01	very good	very good	very good	non- flammable
tetrafluorethylene hexafluorpropylene copolymer	FEP	6Y	-100 / +200	20-25	250-350	0,01	very good	very good	very good	non- flammable
ethylen-tetrafluorethylene	ETFE	7Y	-100 / +150	40-50	100-300	0,01	very good	very good	very good	non- flammable
perfluoralkoxy-polymer	PFA		-190 / +260	30	300	0,01	very good	very good	good	flammable
chloroprene-caoutchouc	CR	5G	-40 / +100	25	450	1	very good	moderate	good	self-extinguishing hardly
silicone caoutchouc	SI	2G	-60 / +180	5-10	200-350	1	very good	slight	moderate	flammable
ethylenvinylacetate	EVA	4G	-30 / +125	5	200	0,01	good	slight	slight	flammable
ethylen propylene-caoutchouc	EPM/EPDM	3G	-30 / +120	5-25	200-450	0,02	good	slight	slight	flammable
thermoplastic polyolefine elastomere	TPE-O		-40 / +120	>6	>400	1,5	very good	moderate	moderate	flammable
thermoplastic polyester elastomere styrene copolymer	TPE-E	12Y	-70 / +125 -70 +105/140	3-25 9-25	280-650 500-700	0,3-0,6 1-2	very good moderate	good good	very good slight	flammable flammable