

## COMPOUNDS

M-Tec.06-01

Chimical terminology	International classification	Properties	Range Temperature	Chimical resistance
ACRYLIC ACID ESTER COPOLYMER	ACM	Excellent air and gas impermeability Very good oils resistance up to 150°C Very good ozone, atmospheric agents and UV rays resistance	-30° ~ +150°C	Very good resistance to aliphatic oils, heat, oxygen, ozone and weathering resistance, good resistance at high temperatures oils
ETHYLENE ACRYLIC	AEM	Excellent air and gas impermeability; low rebound resilience Very good heat and oils resistance up to 170°C Good permanent deformation at high temperature	-30° ~ +170°C	Very good resistance to aliphatic oils, oxygen, ozone and weathering resistance, good resistance at high temperatures oils
CHLOROPRENE RUBBER	CR	Good ozone and sea water resistance Good flame resistance Self-extinguish is possible Good resistance to animal and vegetable fats	-40° ~ +110°C	Good resistance to fats, ozone, atmospheric agents and light fastness, good flame and several Freon resistance
POLYEPICHLOROHYDRIN	ECO	Good flame resistance. Good mechanical properties Good elastic characteristics at low and high temperatures Excellent air and gas impermeability Very good ozone resistance	-40° ~ +135°C	Good resistance to oils, mineral, animal and vegetable fats and glycols
ETHYLENE PROPYLENE TERPOLYMER	EPDM	Very good heat, high temperatures and ozone resistance High resistance to permanent deformation Very good water and steam resistance up to 150°C	-45° ~ +150°C	Good resistance to water and glycols, chemical and oxidation resistance, very good steam resistance up to 150°C
POLYURETANE POLYETHER	EU	Excellent abrasion and tear resistance Very good mechanical properties (tensile strength and elongation at break) Good air and several gas impermeability Good hydrolysis resistance	-30° ~ +100°C	Good hydrolysis, sea water and saline solutions resistance
COPOLYMER TETRAFLUOROETHYLEN PERFLUOROALKIL VINYL ETHER	FFKM	Excellent chemical inertia Utilization in extreme conditions Very good heat resistance up to 320°C	-15° ~ +315°C	Excellent chemical resistance practically inert, able to withstand temperature peak of 350°C only for limited time
CO-TER-TETRA FLUOROCARBON POLYMER TFE+VDF+HFP+PFVE	FPM/FKM	Excellent thermal and chemical resistance to oils and solvents Very high resistance to permanent deformation	-40° ~ +250°C	Very good resistance in oils, mineral, animal and vegetable fats, aromatic, aliphatic, chlorinated solvents and fuels

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POLYTRIFLUORMETHYL-VINYL-SILOXANES	FVMQ	Very good chemical resistance Very good mechanical properties at low and high temperatures High resistance to permanent deformation	-55° ~ +200°C	Good resistance to oils from -60° to 200°C, good chemical resistance to several fluids, very good resistance to oils, fuels and solvents
HYDROGENAT ACRYLONITRILE BUTADIENE RUBBER	HNBR	Very good mechanical properties Very good heat resistance up to 150°C Excellent abrasion resistance and permanent deformation	-40° ~ +150°C	Very good resistance to oils, mineral animal and vegetable fats, hydrocarbons and gas very good resistance to several Freon
POLYISOPRENE RUBBER	IR	Good mechanical properties Good elastic properties Blend with SBR and NR are allowed	-50° ~ +90°C	Medium resistance to sea water, acids and bases of medium concentration
ACRYLONITRILE BUTADIENE RUBBER	NBR	Good resistance to oils Good mechanical properties From good to excellent gas and air impermeability	-40° ~ +130°C	Good resistance to oils, mineral animal and vegetable fats, hydrocarbons and gas
NATURAL RUBBER	NR	Excellent mechanical properties Very good elastic properties Extremely good abrasion resistance	-50° ~ +80°C	Medium resistance to sea water, acids and bases of medium concentration
STYRENE BUTADIENE RUBBER	SBR	Good mechanical properties Good abrasion resistance Good resistance to permanent deformation	-40° ~ +100°C	Good resistance to several Freon, glycols and brake fluids
POLYMETHYL-VINYL-SILOXANES	VMQ	Very good heat resistance Very good elastic characteristics at very low temperatures Non toxic in contact with food stuff Very good elastic insulation characteristics	-40° ~ +200°C	Good saline solutions and water resistance up to 100°C, good weathering resistance, ozone, mineral, animal and vegetable fats, alcohols and glycols resistance