

CHEMICAL COMPATIBILITY and RANGE OF TEMPERATURE

	elastomers										
	SBR	NR	NBR	CR	EPDM	HNBR	PU	SILICONE	FKM	FFKM	FFKM
Chemical products	☹	☹	😊	😊	👉	😊	😊	😊	👉	👉	👉
acids	☹	☹	😊	😊	😊	😊	😊	😊	👉	👉	👉
Water and steam	☹	☹	😊	😊	👉	😊	😊	😊	😊	👉	👉
Mineral oils and fats	😊	😊	👉	👉	👉	👉	😊	👉	👉	👉	👉
Synthetic oils and fats	😊	😊	😊	👉	👉	😊	😊	😊	👉	👉	👉
Gasoline 90	☹	😊	👉	👉	👉	👉	😊	👉	👉	👉	👉
Gasoline 95-98	☹	😊	☹	👉	👉	☹	😊	👉	👉	👉	👉
Diesel	☹	😊	😊	👉	👉	😊	😊	👉	👉	👉	👉
Paraffin	☹	😊	👉	☹	👉	👉	😊	👉	👉	👉	👉
Ozone	👉	😊	👉	😊	👉	😊	😊	👉	👉	👉	👉
Weathering	😊	😊	☹	👉	👉	😊	😊	👉	👉	👉	👉
Heat	😊	😊	😊	👉	👉	😊	😊	👉	👉	👉	👉
Cold	😊	😊	😊	😊	😊	😊	😊	👉	😊	😊	😊
Gas impermeability	☹	😊	😊	😊	☹	😊	😊	👉	👉	👉	👉
Abrasion resistance	😊	😊	😊	😊	😊	😊	👉	👉	😊	😊	😊
Tear resistance	😊	😊	😊	😊	😊	😊	👉	👉	😊	😊	😊
Permanent deformation under load	😊	😊	👉	😊	😊	👉	😊	👉	😊	😊	😊
Elasticity	😊	😊	👉	😊	😊	👉	😊	👉	😊	😊	😊
Tensile strength	😊	😊	😊	😊	😊	😊	👉	👉	😊	😊	😊
Specific electrical resistance	😊	😊	☹	😊	😊	☹	😊	😊	☹	👉	👉
Flammability	👉	👉	👉	😊	👉	👉	😊	😊	👉	👉	👉
max work temperature	70	80	120	120	150	150	80	220	210	240	320
min work temperature	-20	-30	-30	-40	-40	-45	-30	-60	-15	-20	-13
	SBR	NR	NBR	CR	EPDM	HNBR	PU	SILICONE	FKM	FFKM	FFKM

technopolymers				
P.T.F.E.	FEP	DEVLON	TFM	PEEK
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
👉	😊	👉	👉	👉
😊	😊	😊	😊	😊
😊	😊	😊	😊	😊
☹	😊	☹	☹	☹
👉	☹	👉	👉	👉
😊	☹	😊	😊	😊
👉	👉	👉	👉	👉
👉	👉	👉	👉	👉
250	200	93	200	315
-200	-60	-40	0	-56
PTFE	FEP	DEVLON	TFM	PEEK

suitable for the application	👉
good resistance but with low changes	😊
low resistance with variations	😊
poor resistance with sensitive variations	☹
NOT recommended	👉