

SEAL INNOVATIONS

On Demand Seal Manufacturing

MATERIALS CHART			COLOR	SHORE HARDNESS	OPERATING TEMPERATURES °C	MINERAL OIL BASED RESISTANCE		WATER + EMULSION OIL RESISTANCE		WATER RESISTANCE		
						RT	PLUS 60	RT	PLUS 60	RT	PLUS 60	
ELASTOMERS	RUBBERS	EPDM-KTW	Ethylene-Propylene-Diene-Rubber Sulphur Cured ▶		87 shore A	minus 50 to plus 100	×	×	×	×	√	√
		EPDM	Ethylene-Propylene-Diene-Rubber Peroxide Cured		85 shore A	minus 50 to plus 130	×	×	×	×	√	√
		EPM	Ethylene-Propylene-Rubber Peroxide Cured ▶		86 shore A	minus 50 to plus 130	×	×	×	×	√	√
		FKM	Fluorine Rubber (*Viton)		85 shore A	minus 20 to plus 220	√	√	√	0	√	√
		FKM (FDA)	Fluorine Rubber (*Viton) FDA Approved		85 shore A	minus 20 to plus 220	√	√	√	0	√	√
		NBR	Nitrile-Butadiene-Rubber		85 shore A	minus 40 to plus 100	√	√	√	√	√	√
		NBR (FDA)	White Nitrile-Butadiene-Rubber FDA Approved		83 shore A	minus 40 to plus 100	√	0	√	0	√	0
		H-NBR	Hydrogenated-Acrylnitril-Butadiene Rubber		85 shore A	minus 40 to plus 150	√	√	√	√	√	√
		MVQ	Methyl-Vinyl-Silicon Rubber- MVQ		85 shoreA	minus 60 to plus 200	×	×	×	×	√	√
		MVQ (FDA)	Methyl-Vinyl-Silicon Rubber- MVQ FDA Approved		85 shore A	minus 60 to plus 200	×	×	×	×	√	√
		AFLAS *	*Aflas-(TFEIP) ▶		85 shore A	minus 10 to plus 200	√	√	√	√	√	√
	POLYURETHANES	LT-PU	Low Temperature Polyurethane ▶		96 shore A	minus 40 to plus 110	√	×	√	×	√	×
		H-PU	Thermoset Polyurethane FDA Approved		95 shore A	minus 20 to plus 110	√	√	√	√	√	√
		C-HPU	Thermocast Polyurethane ▶		94 shore A	minus 20 to plus 110	√	√	√	√	√	√
		C-HPU 55D	Thermocast Polyurethane 55 Shore Hardness ▶		55 shore D	minus 20 to plus 110	√	×	√	×	√	×
		C-HPU 72D	Thermocast Polyurethane 72 Shore Hardness ▶		72 shore D	minus 20 to plus 110	√	×	√	×	√	×
		SL-PU	Polyurethane , Solid Lubricant Filled ▶		96 shore A	minus 20 to plus 110	√	×	√	×	√	×
THERMOPLASTICS ■	PTFE	Polytetrafluoreethylene -Virgin		57 shore D	minus 260 to plus 260	√	√	√	√	√	√	
	PTFE	Polytetrafluoreethylene - Glass Filled 25%		54 shore D	minus 200 to plus 260	√	√	√	√	√	√	
	PTFE	Polytetrafluoreethylene - Mos2 , Glass Filled ▶		60 shore D	minus 200 to plus 260	√	√	√	√	√	√	
	PTFE	Polytetrafluoreethylene -Bronze Filled		64 shore D	minus 200 to plus 260	√	√	√	√	√	√	
	PTFE-TMB	Polytetrafluoreethylene - Mos2 ,Glass, Bronze ▶		64 shore D	minus 200 to plus 260	√	√	√	√	√	√	
	POM	Polyoxymethylene (Acetal)		85 shore D	minus 40 to plus 100	√	√	√	√	√	√	
	PA	Polyamide (Nylon)		85 shore D	minus 40 to plus 100	√	0	×	×	×	×	
	UHMWPE	Ultra High Molecular Weight Polyethylene		61 shore D	minus 200 to plus 80	√	√	√	√	√	√	
	0 - Limited Resistance or Unknown Data					RT - Room Temperature (plus 20)		√ Suitable		× Not Recommended		
Viton is a registered trademark of DuPont Performance Elastomer. Aflas is a registered trademark of Asahi Glass Company												

*Viton is a registered trademark of DuPont Performance Elastomer. *Aflas is a registered trademark of Asahi Glass Company

▶ Please phone us regarding the availability of these specialist materials

■ Other Thermo Plastics are available on request