

Substances	CAS No.	Uses	Identified alternatives (non exhaustive)	Limits
PTFE	9002-84-0	Dispersion	- PMU - UHMPE ex. Mipelon fine powder	- Temperature resistance - Unknown yarn adherence - Chemical resistance - Mechanical resistance - Ability if particles to remain in suspension has to be studies
		Powder		
		Gasket	Metallic seals	Not suitable for high pressure applications
		O-rings	- PEEK - PA (4-6 ;6-6) - TPU - HNBR - PBI	- Temperature resistance - Chemical resistance
		Adhesives		
		Yarn, fibers	<i>p</i>-aramide <i>m</i>-aramide (Nomex®) - UHMPE (Dynema®) : tenue en température limitée (60°C) mais coef. de frottement bas et bonne résistance mécanique	- Aramid fibers have an higher mechanical resistance → shaft must be surface treated to prevent from wear - UHMPE has a limited temperature resistance
		Struts	- PEEK - PA - UHMPE	See PTFE lign
FEP	25067-11-2	O-rings	See PTFE lign	See PTFE lign
VDF - HFP	9011-17-0	O-rings (FKM)		
TFE	204-126-9	O-rings (FKM, FFKM)		
PMVE	-	O-rings (FKM, FFKM)		

PFPE	-	• Lubricant	• Vegetable oils • Ionic liquid • Copper based paste	- Temperature resistance - Still at R&D process (no commercial application yet)
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