Chenming Seal-Sealing Material-2024

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
1760	Virgin PTFE	WH	-90/240	D62	170HB	500	FDA food grade, good for normal temperature or food media, static sealing.
1761	Virgin PTFE	WH	-90/250	D62	170HB	400	Improved from 1760, Better temperature resistance and creep resistance, good for normal temperature or food media, static sealing.
1776	PTFE+CF	BK	-100/260	D65	40HRC	30	Carbon fiber filled PTFE, wear resistance, high thermal conductivity, good for fluids and abrasive media sealing.
1777	Modified PTFE	BK	-100/260	D66	45HRC	20	Improved from 1760, high temperature and corrosion resistance, suitable for cement mortar and dust-proof sealing.
1779	Modified PTFE	BK	-100/260	D67	50HRC	15	Special modified PTFE, with higher hardness and creep resistance, good for cement mortar sealing.
1844	Modified PTFE	WH	-100/260	D50	100HB	5	Outstanding corrosion resistance and high wear resistance, FDA food grade. Excellent for strong alkali and hydrofluoric acid.
1845	Modified PTFE	WH	-200/260	D50	100HB	10	Excellent for cryogenic applications. High tensile strength, FDA food grade, good for 304/316L stainless steel shaft in powder sealing. Applications: blenders, LOX/kerosene engine.
1846	PTFE+GF	WH	-100/260	D51	55HRC	10	Glass fiber filled PTFE, high tensile strength, seal with high wear resistance requirements, FDA food grade, food grade powder seal.
1847	Modified PTFE	WH	-100/260	D55	55HRC	8	Improved from 1846. High tensile strength, seals with high wear resistance requirements, FDA food grade, food grade powder seal.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
1850	Modified PTFE	LYW	-100/260	D60	55HRC	10	Sealing of powder and grinding media, vacuum pump system sealing for semiconductors.
1851	Modified PTFE	LYW	-100/260	D60	50HRC	5	Improved from 1850, better wear-resistant, sealed with vacuum pump system for semiconductors.
1852	Modified PTFE	LYW	-100/260	D55	50HRC	1.4	Good for oil-free powder or less oil splash lubrication environment sealing, food grade, high wear resistance, low torque, such as reducer/mixer/disperser.
1853	Modified PTFE	LYW	-100/260	D58	55HRC	3	Improved from 1852, better creep resistance, food grade, high wear resistance, low torque, such as reducer/mixer/disperser.
1865	Modified PTFE	BK	-100/260	D64	55HRC	6	Mos2 filled PTFE, resistant to high pressure and high temperature, high wear resistance, long working environment, sealing of oil/powder flooded, such as air compressor vacuum pump/mixer.
1870	Modified PTFE	GY	-100/260	D60	50HRC	1.4	Graphite filled PTFE, high temperature wear resistance and long-term working environment. For low-pressure and high-speed sealing, such as automobile engines and mixers.
1872	Modified PTFE	BK	-100/260	D60	55HRC	7.4	Low pressure and high speed, oil/less oil environment sealing, high wear resistance, good heat dissipation performance, medium torque. Application: aviation kerosene rotary shaft seals.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
1910	Modified PTFE	RD	-200/260	D55	170HB	6.5	Excellent for cryogenic applications, high wear resistance and good heat dissipation performance, good for liquid nitrogen sealing. Application: LOX/kerosene engine.
2159	Modified PTFE	BK	-100/260	D62	58HRC	7	Mos2 filled PTFE, improved from 1865, good for high pressure and high temperature, such as air compressors, vacuum pumps/mixers.
2160	Modified PTFE	BK	-100/260	D63	58HRC	7	High tensile strength and outstanding creep resistance. Good for high speeds, large shaft runout, and long-term sealing flooed in oil.
2162	Modified PTFE	BK	-100/260	D60	58HRC	8	Higher hardness, high tensile rebound rate and outstanding creep resistance, good for sealing colloids, powders and liquid chemicals.
3150	PTFE+G	BK	-100/260	D52	170HB	10	Graphite filled PTFE, outstanding creep resistance, wear resistance and corrosion resistance, good for corrosive gas sealing.
3160	Modified PTFE	BK	-100/260	D55	170HB	4	Good self-lubricating properties and outstanding corrosion resistance, good for sealing corrosive gases.
3180	Modified PTFE	BK	-100/260	D50	170HB	10	Good self-lubricating properties, wear resistance and corrosion resistance. Good in water service.
3181	Modified PTFE	BK	-100/260	D50	30HRC	5	Self-lubricating and wear-resistant, good for dry grinding and in water service. Competitor of A42.
3190	Modified PTFE	BK	-100/260	D55	50HRC	3	Good self-lubricating properties, corrosion resistance and wear resistance, especially for fluid sealing with abrasive media.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
3610	Modified PTFE	BK	-100/260	D55	170HB	1.3	Good self-lubricating, suitable for shaft hardness, oil-free vacuum, dry ruuning, dustproof and waterproof environments. Application: vacuum pumps, oil-free screw air compressors.
3954	Modified PTFE	BGE	-100/260	D55	100HB	3.3	Good for strong alkali & acids. Better dimensional stability in temperature changes. Low abrasion to soft shafts. Good in unlubricated service. Application: chemical pumps, vacuum pumps, mixers.
3957	Modified PTFE	BGE	-100/260	D62	45HRC	3.5	Improved from 3954. FDA food grade, higher shaft hardness required. Excellent for abrasive powder and slurry. Application: powder crushing, mixing and transportation.
3965	Modified PTFE	TAN	-100/260	D60	100HB	1.3	Excellent high temperature capabilities & excellent wear resistance. Low abrasion to soft shafts. Good in unlubricated service: oil-free vacuum, dry running, dust-proof and gas-proof environments. Application: vacuum pumps, mixers, reducers.
3966	Modified PTFE	TAN	-100/260	D65	180HB	1.5	Improved from 3965, good for oil-free low-torque working conditions, high-speed rotation, low heat generation and high wear resistance. Application: reducers
3976	Modified PTFE	DGN	-100/260	D45	100HB	2.8	Low abrasion to soft shafts. Good in unlubricated service. FDA food grade, high-temperature water vapor sealing in high-speed environments. Application: Micro high speed motor.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
3977	Modified PTFE	BN	-100/260	D50	100HB	1.0	Good abrasion resistance with high wear properties. Low abrasion to soft shafts. Good in unlubricated service. FDA food grade, high-temperature water vapor sealing in high-speed environments. Application: Micro high speed motor.
3978	Modified PTFE	RD	-100/260	D64	50HRC	3	Outstanding wear resistance, oil-free self-lubricating, suitable for colloid sealing.
3985	Modified PTFE	BK	-200/260	D50	100HB	17	Low hardness, oil-free self-lubrication, outstanding corrosion resistance. Good for sealing in low-hardness shafts and high and low temperature environments. Application: chemical pumps.
4005	UPE	WH	-260/100	D55	100HB	1.5	Outstanding wear resistance, resilience, self-lubrication and low temperature resistance, good for fluid sealing.
4006	Modified UPE	ORN	-260/100	D50	170HB	1	Improved from 4005. Better self-lubrication, outstanding low temperature resistance, suitable for environments with high wear resistance requirements.
4007	Modified UPE	BK	-260/100	D45	170HB	1	Improved from 4005. Better self-lubrication, outstanding low temperature resistance, suitable for environments with high wear resistance requirements.
4008	Modified UPE	GY	-260/100	D45	170HB	1	Improved from 4005. Better self-lubrication, outstanding low temperature resistance, suitable for environments with high wear resistance requirements.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
4009	Modified UPE	BU	-260/100	D45	170HB	1	Improved from 4005. Better self-lubrication, outstanding low temperature resistance, suitable for environments with high wear resistance requirements.
4010	Modified UPE	WH	-260/100	D55	100HB	1	Imported modified UPE, food-grade certified, has better self-lubricating properties, outstanding low-temperature resistance, suitable for liquid sealing.
4015	PEEK	BGE	-100/260	D90	30HRC	2	Outstanding wear resistance, self-lubrication and creep resistance, and is suitable for sealing viscous colloids.
4016	Modified PEEK	BGE	-140/260	D86	20HRC	1.5	Improved from 4015, better self-lubricating properties and lower friction coefficient, especially for sealing adhesive.
4017	Modified PEEK	BGE	-140/260	D80	20HRC	1	Improved from 4016, better self-lubricating properties and lower friction coefficient, especially for sealing adhesive.
4019	Modified PEEK	BK	-140/260	D85	35HRC	1	Graphite/carbon fiber filled PEEK, higher hardness, better self-lubrication and wear resistance, low friction coefficient, especially for sealing in dry grinding environments.
4025	PPESK	GY	-150/400	D85	20HRC	5	Glass transition temperature is 100℃ higher than ordinary PEEK, suitable for long-term high temperature sealing of 300℃.
4035	PEI	GD	-270/300	D65	170HB	1	Outstanding high and low temperature resistance, good self-lubrication. It is polyimide, insoluble in organic solvents, stable to dilute acids, and not resistant to hydrolysis. Used in aviation/aerospace, laser and other fields.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
4045	PAI	BN	-200/280	D65	170HB	1	Polyamide-imide, high strength, high insulation, radiation resistance, corrosion resistance, self-lubricating, low hygroscopic expansion coefficient and thermal expansion coefficient.
4055	PCTFE	WH	-300/120	D60	170HB	5	Low water absorption, good mechanical properties and electrical insulation properties, good creep resistance, and its chemical stability is second only to polytetrafluoroethylene.
4065	PPL	BN	-60/280	D55	50HRC	30	Self-lubricating properties are better than molybdenum disulfide and graphite, with extremely low friction coefficient, good wear resistance and excellent chemical stability.
4075	PA6	WH	-60/80	D50	170HB	100	Good resilience, highest wear resistance, multiple deformation resistance and fatigue resistance are close to polyester, higher than other fibers. They have good heat absorption, poor light and heat resistance.
4085	POM	WH	-40/100	D50	20HRC	50	Good physical, mechanical and chemical properties, excellent friction resistance. High mechanical strength and rigidity, high fatigue strength.
9010	NBR	BK	-40/120	A65	180HB	500	Nitrile rubber, good oil resistance, high wear resistance, good heat resistance and strong adhesion. Its disadvantages are poor low temperature resistance, poor ozone resistance, poor insulation performance, and slightly lower elasticity.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
9020	VMQ	WH	-70/220	A60	180HB	500	Silicone, heat resistance/low temperature elasticity and particularly excellent resistance to oxidation and ozone, high breathability and selectivity for gas transmission.
9030	EPDM	BK	-50/150	A70	180HB	500	EPDM rubber has excellent aging resistance such as ozone resistance, heat resistance, and weather resistance. Excellent chemical resistance, resistant to acids, alkalis, detergents, animal and vegetable oils, alcohols, ketones, etc.
9040	PU	RD	-40/90	A90	180HB	300	Polyurethane rubber, hydrolysis resistance, oil resistance, high hardness, high elasticity, high wear resistance, tear resistance, aging resistance, ozone resistance, radiation resistance and good conductivity.
9090	FKM26	BN	-20/250	A75	180HB	300	Fluorine rubber, high chemical stability, resistant to petroleum-based/diesters/silicone/silicic acid oils, resistant to inorganic acids, resistant to most organic/inorganic solvents/pharmaceuticals, etc., not resistant to low molecular weight ketones/ethers / ester, not resistant to amine/ammonia/hydrofluoric acid/chlorosulfonic acid/phosphoric acid hydraulic oil.

MAT. NO.	Compound	Color	Working TEM(℃)	MAT. Hardness	Shaft Hardness(≥)	Dry Wear Loss	Recommended Applications
9091	FKM246	BN	-30/300	A75	180HB	200	Imported high-fluorine rubber is corrosion-resistant, oil-resistant, and has better high-temperature resistance than 9090. The long-term working temperature upto 260℃.
9110	FFKM	BK/WH	-15/330	A75	180HB	200	Competitor of Kalrez 7075, Kalrez 8900, continuous use temperature 330℃, short-term 350℃.
9120	FFKM	BK/WH	-15/260	A76	180HB	200	Competitor of Kalrez 6375, good resistant to acids and alkalis, ketones, ethers, and amine chemicals
9130	FFKM	BK	-15/315	A73	180HB	200	Competitor of Kalrez 4079，excellent physical properties and has passed the TGA test in an anaerobic environment.
9140	FFKM	BGE	-15/315	A70	180HB	200	Competitor of Kalrez kalrez 9100，Original color of rubber, no fillers, produced in a dust-free workshop, ultra-high cleanliness, dedicated to semiconductors.