

PTFE COMPOUNDS: STANDARD GRADE FORMULATIONS

Filler	Product description	PTFE resin	Compound %	Properties	Color	Density (g/cm³)	Elongation (%)	Hardness (Shore D)	Tensile strength
Glass fiber	fluteck™ P GL series	virgin, modified, pigmented	up to 40%	Improved wear resistance, compression strength, creep resistance, chemical resistance (except to alkalis and hydrofluoric acid). Good performance in oxidizing environments	white cream	2.130 – 2.290	up to ≥ 300	up to ≥ 63	up to ≥ 18
Glass fiber combined with MoS2 / graphite	fluteck™ P GM-GG series	virgin, modified	up to 25%	Superior hardness and wear resistance. Increased sliding properties	gray black	2.140 – 2.280	up to ≥ 250	up to ≥ 60	up to ≥ 22
Carbon Electro-graphitized carbon	fluteck™ P CA - CS series	virgin, modified	up to 35%	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, rapid dissipation of electrical charge, inertness and chemical resistance	black	2.030 – 2.190	up to ≥ 350	up to ≥ 62	up to ≥ 30
Carbon graphite Electro-graphitized carbon graphite	fluteck™ P CG series	virgin, modified	up to 35%	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, improved wear resistance and low friction properties	black	2.070 – 2.190	up to ≥ 200	up to ≥ 62	up to ≥ 20
Carbon fiber	fluteck™ P CF series	virgin, modified	up to 20%	Improved lubricant properties in wet environments (dynamic applications). Resistance to hydrofluoric acids and strong bases (except oxidizing environments)	black	2.060 – 2.120	up to ≥ 200	up to ≥ 55	up to ≥ 20
Graphite	fluteck™ P GR series	virgin	up to 25%	Improved wear resistance, decreased friction and increased sliding properties against soft metals, chemical inertness	black	2.120 – 2.180	up to ≥ 250	up to ≥ 60	up to ≥ 20
Bronze	fluteck™ P BZ series	virgin, pigmented	up to 60%	Improved compression strength, wear resistance, high thermal conductivity, resistance to abrasion, reduced chemical resistance	brown green	3.050 – 4.000	up to ≥ 200	up to ≥ 65	up to ≥ 15
Bronze combined with MoS ₂ /graphite	fluteck™ P BM-BG series	virgin, pigmented	up to 60%	Superior hardness and wear resistance. Increased sliding properties. Lower coefficient of friction than bronze filled	brown	3.050 – 3.900	up to ≥ 200	up to ≥ 65	up to ≥ 18
Molybdenum disulfide (MoS ₂)	fluteck™ P MS series	virgin, pigmented	up to 5%	Increased properties of hardness and wear resistance. Increased sliding properties and decreased friction	blue	2.200 – 2.250	up to ≥ 250	up to ≥ 55	up to ≥ 25
PEEK	fluteck™ P PK series	virgin, pigmented	up to 20%	Increased thermal resistance, sliding properties, surface hardness. Superior properties in dynamic applications	light brown	1.800 – 1.930	up to ≥ 35	up to ≥ 65	up to ≥ 13
Stainless steel	fluteck™ P IN series	virgin	up to 50%	Superior compression strength and wear resistance properties, high thermal conductivity, resistance to abrasion	gray	3.300 – 3.400	up to ≥ 130	up to ≥ 65	up to ≥ 15
Aromatic polyester	fluteck™ P EK series	virgin, pigmented	up to 25%	Improved low friction behavior and high wear resistance against all counterfaces	brick red brown	1.850 – 2.090	up to ≥ 180	up to ≥ 60	up to ≥ 15
Calcium fluoride	fluteck™ P FC series	virgin, pigmented	up to 25%	Improved wear resistance, compression strength, creep and chemical resistance. FDA approved	cream brown	2.230 – 2.290	up to ≥ 150	up to ≥ 62	up to ≥ 15
Alumina / Ceramic	fluteck™ P AL - CE series	virgin	up to 15%	Excellent chemical resistance, compression strength and chemical/thermal dimensional stability	cream	2.240 – 2.270	up to ≥ 150	up to ≥ 62	up to ≥ 18



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