

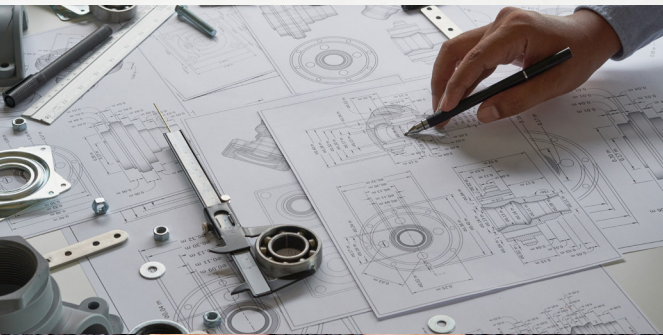
SEPCO High Performance Plastics

SEPCO's Thermex line of polymer products offers everything from general service materials to ultra-high-performance polymer composites. Not only are the material offerings broad, but SEPCO's Thermex products can also be provided in various forms. From raw material powders to semi-finished rods and tubes to turn-key machined parts, SEPCO's Thermex plastics will work for you. All materials are certified and tested in our in-house laboratory in accordance with most ASTM plastic specifications.



FEATURES

- Compounded material available in powder form per pound
- Molded material available in rods, sheets, tubes and billets
- Machined products available in endless geometries and configuration



Thermex No.	Description	Max Temp (F)	Hardness (Shore D)	Coefficient of LTE (10 ⁻⁵)	Coefficient of Friction	Tensile Strength (psi)	Elongation (%)	Benefit
100	Virgin PTFE	450	60	7.5	0.05	3900	350	General Service
102	15% Glass Filled PTFE	450	60	5.7	0.09	3,350	300	Increased rigidity, ideal for ball valve seats
104	25% Glass Filled PTFE	450	62	4.3	0.12	3,000	250	High strength, low deformation, good for static sealing
210	Internal Lubricated Polymer	210	R117	4.5	0.19	10,900	5	Dry running polymer for bearing applications (VT Pumps)
213	Carbon/Graphite Filled PTFE	450	61	5.9	0.09	2,200	100	Increased wear resistance for dynamic sealing applications
301	Glass/Moly Filled PTFE	450	63	5.2	0.06	3,000	225	Low COF, ideal for high FPM applications
310	Graphite Filled PTFE	500	65	4.2	0.15	2,800	160	Higher temp wear applications, good for soot blower sets
641	Wear/Friction Polymer (FDA)	550	65	4.27	0.2	3,100	300	High wear applications - FDA Compliant
700	Bronze Filled PTFE	450	68	4.3	0.13	2,400	165	General service bearing material, good for wear bands
750/751	Metal Detectible PTFE	500	64	4.5	0.12	3,500	150	FDA, metal detectable applications
910	Bearing Grade PPS	450	85	1.5	0.2	9,500	3	Bearing grade material for high speed/high load bearing applications
945	Wear/Friction Polymer	550	65	2.8	0.2	3,000	20	High Wear applications where dimensional stability is critical
950	Virgin PEEK	500	84	2.6	0.2	14,250	45	Very high strength, low COF, ideal for high pressure bushings, bearings, seals - FDA
953	Glass Filled PEEK	500	85	1.2	0.3	18,000	3	Increased stiffness, strength, ideal for extreme pressure and high dimensional stability
954	Hi-Temperature Composite	800	85	1.4	0.2	16,000	1	Extremely high-temp bearing applications
955	Carbon Fiber Filled PEEK	500	88	1.05	0.2	18,500	5	lowest thermal expansion and increased thermal conductivity, ideal for extreme wear

**Results are typical, specific individual performance varies by individual application. SEPCO products are warranted free from manufacturing defect and limited to product cost. No warranties, express or implied, are made for specific application performance.*