Berghof Fluoroplastics PTFE COMPOUNDS								
PROPERTY	TEST	UNIT	Glass Fibers	Hard Carbon	Soft Carbon	Graphite	PEEK	Aromatic Polyester
Filler Content	–	%	25	25	25	15	15	10
Specific Gravity	ASTM D4894	%	2,25	2,10	2,10	2,16	2,04	2,07
Tensile Strength CD	ASTM D4894	%	18	min. 15	18	20	19	22
Elongation CD	ASTM D4894	%	270	min. 90	190	200	220	320
Hardness	ASTM D2240	Shore D	62 +/- 3	63 +/- 3	63 +/- 3	61 +/- 3	59 +/- 3	60 +/- 3
Benefits and Limits			→ High temperature → dimensional stability → Pressure resistant, even at higher temperatures → Minimum cold flow → Stiffness and good wear resistance properties → Virtually universal chemical resistance against organic solvents	→ Advanced pressure resistance with increased hardness → Hydrochloric acid resistant → Not resistant against heavily oxidising agents (acids, bleaches, halogens)	→ Good dry running → Hydrochloric acid resistant → Electrical conductive when highly filled → Not resistant against heavily oxidising agents (acids, bleaches, halogens)	→ Good heat conductivity → Wear characteristics approx. 5 times better than virginal PTFE → Low coefficient of friction → Low abrasion when used against soft metals counterparts	→ High temperature → Dimensional stability → Resilience to abrasion → Good chemical resistance → Suitable for contact with food stuff	→ Low abrasion on the counterpart surface of soft metals (i.e. Aluminium) → High temperature resistance → Resistant against aggressive chemicals for corrosion and rust free components → Long term operating life
Applications			→ Chemical pumps → Bearing bushes → Seals	→ Hydraulic seal elements → Parts requiring good thermal conductivity → Pressure and wear resistant parts → Bearing bushes and seals → Valve seats	→ Water applications → Dry running from low to medium loading → Variety of seals and bushings	→ Hot water applications → Steam applications	→ Compressor rings → High speed rotating radial seals → Back-up rings → Bushings → Packing sets	→ High speed rotating radial seals → Self-lubricating and slide bearings → Compressor rings → Spring-load seals → Bushings → Gaskets → Dry running conditions

Note: Guide values are given in this data print-out that have been compiled on the basis of current experience and knowledge. These values may be influenced by processing conditions, modifications, additives and environmental conditions and do not release users from the obligation to carry out their own checks and trials. A legally binding guarantee of particular properties or v for a concrete purpose cannot be derived from our information.
Typical Values referred to Free-Flowing grade version. Not suitable for specification purposes.