

Key Properties Comparison: Drake Ultra High-Performance Polymers											
		PAI			PEEK					PPS	PEI
		Unreinforced	30% Glass Reinforced	30% Carbon Reinforced	Unreinforced	30% Glass Reinforced	30% Carbon Reinforced	Unreinforced PEK HT	High Temp. Unreinforced	40% Glass Reinforced	30% Glass Reinforced
Commercial Name		Torlon 4203	Torlon 5030	Torlon 7130	PEEK NT	PEEK GF30	PEEK CF30	PEK HT G45	KetaSpire PEEK XT	Ryton R4	Ultem 2300
Flexural Modulus	Mpa	5030	11700	19900	3700	10300	17500	4200	3600	13800	9000
	kpsi	730	1700	2885	535	1500	2540	610	520	2000	1300
Compressive Strength	Mpa	221	264	254	118	169	173	140	114	265	221
	kpsi	32	38	37	17	25	25	20	17	38	32
Tensile Strength	Mpa	152	221	221	96	158	201	110	93	165	158
	kpsi	22	32	32	14	23	29	16	14	24	23
Tensile Elongation*	%	20+	4	3	40+	5	4	40+	40+	5	5
Glass Transition Temp.	°C	280	280	280	150	150	150	160	170	90	218
	°F	536	536	536	302	302	302	320	338	195	424
Thermal Expansion (CLTE)	ppm/°C	30.6	16	9	43	17	5.2	40	44	20	20
	ppm/°F	17	9	5	24	9	2.9	22	24	12	12

*Typical elongation data are based on Drake's extruded shapes which demonstrate consistently higher values than injection molded materials in the same tests.