



Comparable Data Sheets

COMPARISON OF OTHER CRITICAL VARIABLES

Critical properties	Techtron PPS	Ketron PEEK	Semitron LL5	Semitron XL20
Thermal				
Heat-deflection temperature (264 psi), °F	250	320	180	532
Chemical				
pH range	1 to 14	1 to 14	2 to 9	2 to 10
Acids-weak	g	g	g	g
Acids-strong	m+	m+	m	m
Bases-weak	g	g	g	m
Bases-strong	g	g	p	p
Mechanical				
Coefficient of friction	0.4	0.4	0.19	0.35
Coefficient of linear expansion, in./in./°F	2.8×10^{-5}	2.6×10^{-5}	4.5×10^{-5}	1.7×10^{-5}
Flexural modulus, kpsi	575	600	360	600
Hardness (M scale)	95	100	94	120
Stability of machined dimensions (flatness, parallelism)	g	g	m+	g
Relative cost (\$/wafer – Normalized to Techtron PPS)				
Oxide	1	0.83	0.12	0.14
Tungsten	1	0.8	0.53	0.02
Copper	1	1.26	0.53	0.37

p = Poor, m = Medium, m+ = between medium and good; g = Good

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