

COMPARATIVE MATERIAL PROPERTIES

Process			Fused quartz	Zerodur	Silicon	Engineered Be	SiO converted, CVD coated SuperSiC	Carbon fibre reinforced SiC	Methyl-Trichloro- Silane reactor deposition	Large oven sintered SiC	Sintered, CVD coated SiC	optoSiC+
Density	DIN EN 623-2	g/cm3	2,19	2,53	2,33	1,85	3,07	2,97	3,21	3,21	3,21	3,16
Young's Modulus	DIN EN 843-2	E [GPa]	73	92	130	303	330	347	457	420	410	420
Flexural Strength, 4-pt bending	DIN EN 843-1	MPa	48	50	69	207	233	254	402	450	480	510
Poisson Ratio		v	0,10	0,10	0,24	0,25	0,17	0,18	0,17	0,16	0,21	0,17