





























MaterialProperties							
Material	density	Elastic Modulus	Thermal expansion	Specific Heat	Thermal Conductivity	E/p	K/α
	ρ(kg/m^3) xE-3	E(GPa)	α(/°K)xE6	C(J/kg/°K)	K(W/m°K)		
Aluminum6061-T6	2.71	69	23.00	960	171.00	25.5	7.43
BerylliumI70	1.85	304	11.20	1820	220.00	164.3	19.64
Steel	7.80	193	12.00	470	43.00	24.7	3.58
Silver	10.50	74	19.30	230	429.00	7.0	22.23
Copper	8.94	108	16.80	390	401.00	12.1	23.87
Molybdenum	10.21	324	5.00	247	140.00	31.7	28.00
Titanium	4.43	114	8.80	560	7.30	25.7	0.83
Magnesium	1.85	45	25.20	1000	76.00	24.3	3.02
Lead	11.34	16	29.00	130	35.30	1.4	1.22
Nickel	8.90	200	13.30		90.00		6.77
Invar36	8.05	141	1.00	515	10.40	17.5	10.40
SiliconCarbide GraphiteEpoxy	3.20	455	2.40	650	155.00	142.2	64.58
GlassBK7	2.53	81	7.10	879	1.12	31.9	0.16
GlassF2	3.61	57	8 20	557	0.78	15.8	0.10
GlassFPL51		73	13.30		0.78		
CaF2(calciumflouride(3.18	110	18.90	911	9.70	34.6	0.51
Pyrex	2.23	66	3.30	838	1.13	29.4	0.34
FusedSilica	2.20	73	0.56	741	1.37	33.3	2.45
ULE	2.20	68	0.03	766	1.31	30.8	43.67
Zerodur	2.53	91	0.02	821	1.64	36.0	82.00
Sapphire	3.97	400	5.60	753	30.00	100.8	5.36
MgF	3.18	169	14.00	1004	21.00	53.1	1.50
Diamond	3.51	1050	0.80	108	2600.00	299.1	3250.00