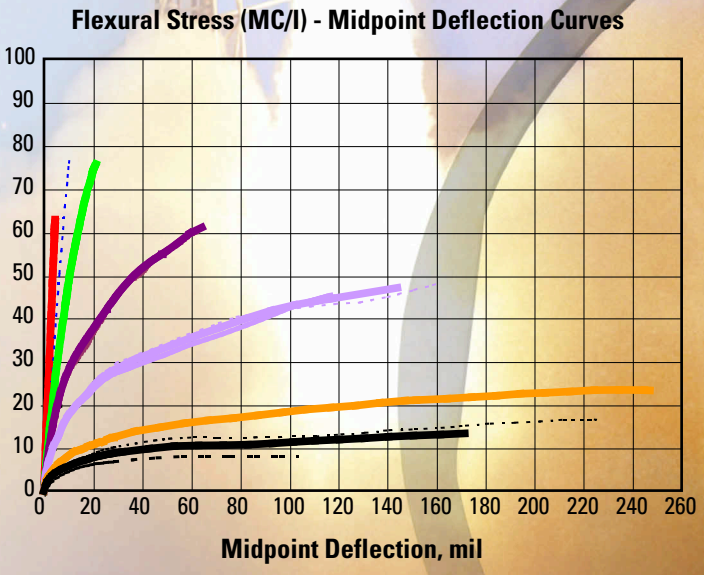
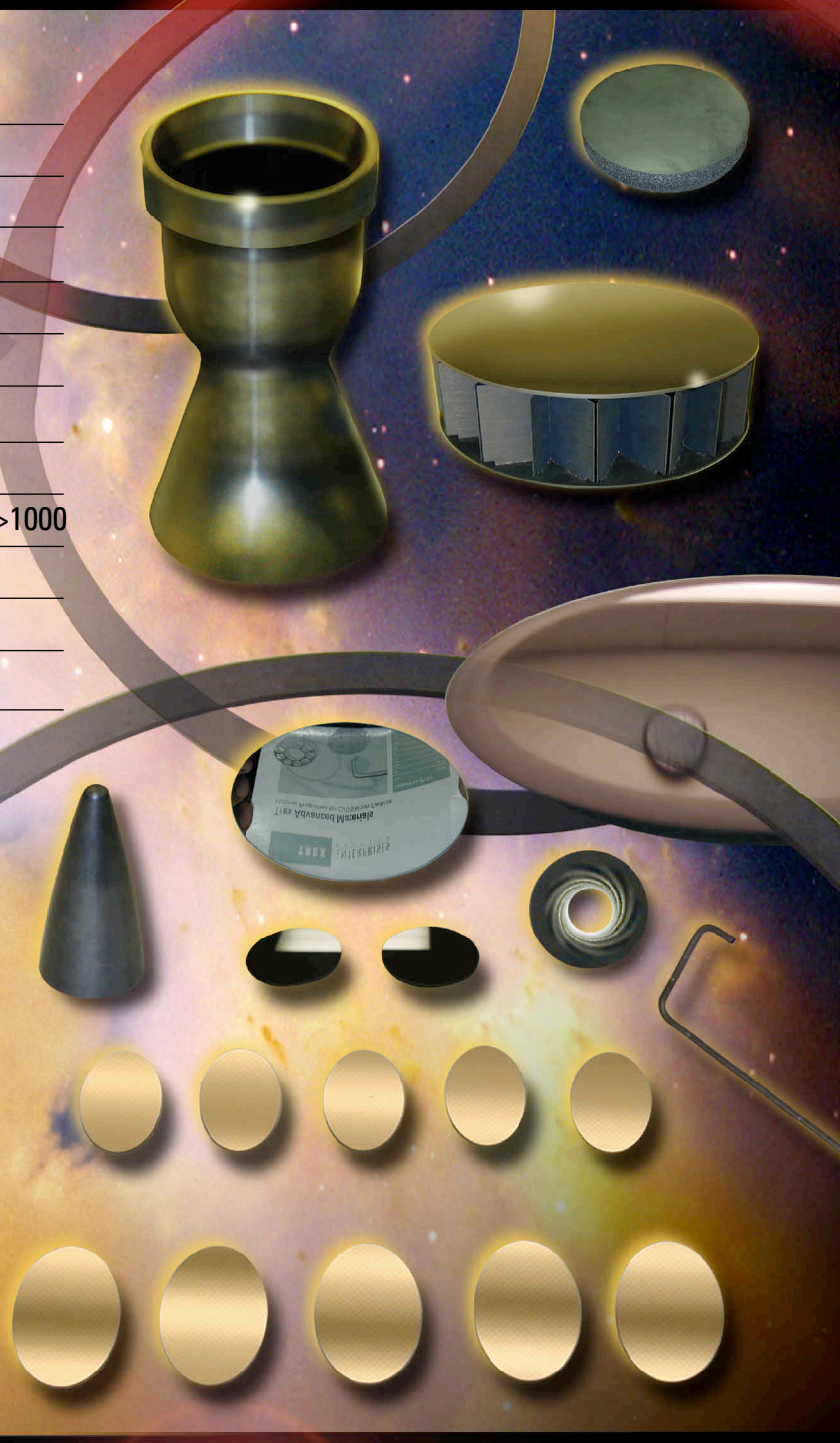
Trex Enterprises' Advanced Materials

Materials based solutions for your demanding environments

Density (g/cc) (% theoretical)	3.2
Porosity	Nil
Grain size (microns)	5-10
Flexural Strength (MPa) @ RT	450
Young's Modulus (GPa)	466
Poisson's Ratio	0.21
Hardness HV (0.3) kg/mm squared	2850
Fracture toughness (Mpa m1/2)	3.39
Electrical resistivity (OHM-cm)	<1.5 to >1000
Thermal conductivity (W/m-°K) @ 25C	205-250
CTE (x10-6/°C)	3.5
Heat capacity (J/kg-°K)	640
Total impurities	< 5 ppm





TREX ENTERPRISES CORPORATION