REQUIREMENTS FOR MATERIALS DESIGN		
COMPONENT NAME		piston
WBS No.		2.5.3.1.2
FUNCTION	1 2	What does the component do? What kind of mechanical load is applied on the component?  Gas pressure
CONSTRAINS (Hard)	1 2 3 4 5	What non-negotiable conditions must be met? reducing wear sealing expanding size and wear resistance dimensions Tensile strength What negotiable but desirable condistions must be met
CONSTRAINS (Soft)	1 2 3 4 5	ss420
OBJECTIVES	3 4	What is to be maximized or minimized?  Maximize Impact Strength  Maximize wear resistance  Maximize flexural Strength  Maximize glass Transition (Tg)  Maximize heat deflection Temperature
FREE VARIABLE	1 2 3 4 5 6	Which Parameters on the problem is the designer free to change? ss420