



Comparison of Zinc Alloy Properties With Other Materials

Material	Tensile Strength (ksi)	Yield Strength (ksi)	Young's Modulus, (psi x 10 ⁶ (ksi))
Die Cast Alloys			
Zinc Alloy 3	35	-	6.3
ZA-8	43	32	12.4
ZA-27	52	46	11.3
380 Aluminum	45	23	10.3
AZ91 Magnesium	34	23	10.3
Sheet Steels			
Draw Quality	40	25-35	29.5
HSLA	60	60	29.5
Powdered Iron	-	70	17.5-19.5
Plastics			
ABS	8	-	1.0
Polycarbonate	9	-	1.0
Nylon 6 (30% glass reinforced)	22	-	1.5
PET (30% glass reinforced)	21	-	2.0
PBT (30% glass reinforced)	18	-	2.5