

DATA SHEETBELMONT ZINC ZAMAK 3 ALLOY 8961Physical Properties as Pressure Die Cast

Ultimate Tensile Strength	41,000 pounds per square inch
Charpy Impact Strength	43 ft. - pounds (1/4 in. sq. bar)
Brinell Hardness Number	82
Compressive Strength	60,000 pounds per square inch
Shear Strength	31,000 pounds per square inch
Melting Range (liquidus)	728 [°] F 387 [°] C
(Solidus)	717 [°] F 381 [°] C
Specific Gravity	616
Weight per Cubic Inch	.24 pounds
Weight per Cubic Foot	414.7 pounds
Elongation in 2 inches	10%
Coefficient of Linear Expansion	15.2 X 10 ⁻⁶ per [°] F
Electrical Conductivity	27% IACS
Thermal Conductivity	127 calories per cubic centimeter per degrees centigrade at 18 [°] C

CHEMICAL COMPOSITION

Aluminum	3.9 - 4.3%
Copper	.10% max.
Magnesium	.03 - .04%
Silicon	.03% max.
Iron	.01% max.
Lead	.003% max.
Cadmium	.002% max.
Tin	.001% max.
Zinc	Balance

Meets Spec. ASTM AG40A - ZAMAK No.7 8962 has same properties