

# Xyloy™ M950

## Injection Moldable Metal

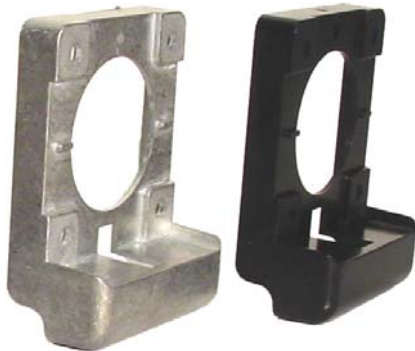
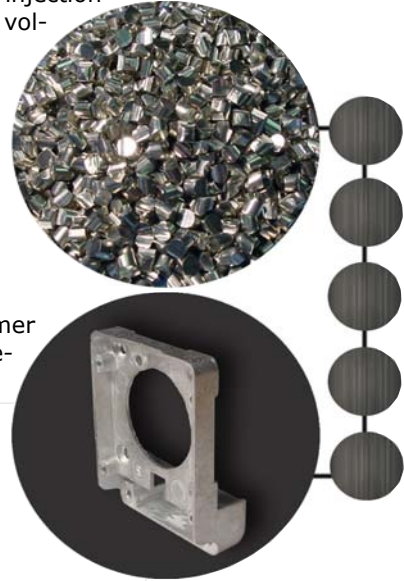
Cool Polymers®, the leading manufacturer of thermally conductive plastics, known as CoolPoly®, has introduced Xyloy™ Injection Moldable Metal. Xyloy injection moldable metals are lightweight alloys processed on standard plastic injection molding equipment to produce 3-dimensional net shape parts in high volume.

Xyloy grades offer an outstanding combination of mechanical, physical and thermal properties that surpass the performance of plastics and die cast metals. These new materials help solve today's and tomorrow's engineering challenges with a unique balance of strength, stiffness, conductivity and processability.

Xyloy M950 is a high strength metal for injection molding.

Cool Polymers offers molded parts in Xyloy M950 according to customer solid models and specifications. Please contact us to discuss your requirements.

- FOR USE WITH STANDARD PLASTIC INJECTION MOLDING EQUIPMENT, ADDITIONAL PROCESS STEPS ARE NOT REQUIRED.
- STRONGER THAN DIECAST, NO POROSITY, TOOLING GUARANTEED FOR THE LIFE OF THE PROGRAM
- 110 W/mK
- CAN BE USED WITH EXISTING TOOLING FOR PLASTIC
- FASTER CYCLE TIMES THAN PLASTIC MOLDING
- TEXTURED FINISHES AVAILABLE, EASILY ACCEPTS STANDARD COATINGS, INCLUDING PLATING AND POWDER COATING



A typical injection molding part design is shown in the picture, molded in both Xyloy M950 (left) and polycarbonate.

Xyloy™ M950 Properties	Metric	English
Ultimate Tensile Strength	325 MPa	47 kpsi
Yield Strength	250 MPa	36 kpsi
Elongation at Break	2%	2%
Modulus of Elasticity	90 GPa	13000 kpsi
Thermal Conductivity	110 W/mK	764 BTUin/hrft²°F
Specific Heat Capacity	0.4 J/g°C	0.1 BTU/lb°F
Mold Shrinkage	0.5%	0.5%

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