

COOLPOLY® THERMALLY CONDUCTIVE PLASTICS

FOR OPTICAL DRIVE PICKUP BASE

CoolPoly thermally conductive injection molding grade thermoplastics are solutions for optical drive pick-up bases that have thermal management requirements, but also benefit from the cost, processing and other advantages of plastics.

Precision locating mechanisms in optical drive pick-up bases are sensitive to the dimensional stability of the base material. Conventional plastics are thermal insulators and cannot be used when heat causes a significant temperature rise. Increasingly higher power electronics generate more and more heat. Thermally conductive plastics spread and help dissipate the heat similar to cast or machined metal pick-up bases.



Optical drive pick-up bases molded from thermally conductive plastics can provide:

- HEAT DISSIPATION
- LOW WEIGHT—40% LESS THAN ALUMINUM
- 3-DIMENSIONAL COMPLEXITY
- LOW RF/EM PROPAGATION
- DIMENSIONAL AND ENVIRONMENTAL STABILITY
- LOW COST

CoolPoly E3601 is used to mold pick-up bases that manage excess electronic heat in commercial DVD and other higher power optical drives. E3601 is also appropriate for other mechanical and optical frames and bases.