

COOLPOLY® THERMALLY CONDUCTIVE PLASTICS

FOR MOLDED BOBBINS

CoolPoly thermally conductive injection molding grade thermoplastics reduce operating temperature of coil bobbins in electromagnetic devices. Coil windings rise in temperature during operation. Bobbins molded from conventional plastics are thermal insulators and heat can only be dissipated by convection at the outer surface of the winding. Thermally conductive plastic bobbins provide a more efficient heat conduction path to other components (often metallic) in contact with the bobbin.



Coil Bobbins molded from thermally conductive plastics offer:

- REDUCED SURFACE AND PART TEMPERATURE
- REDUCED DEVICE TEMPERATURE
- ELECTRICAL ISOLATION
- FAST CYCLE TIMES—50% LESS
- INCREASED DEVICE POWER AND EFFICIENCY
- INCREASED DEVICE LIFETIME

CoolPoly D3606 (V0) thermally conductive plastic is used to mold bobbins of various shapes and geometries. CoolPoly D3606 reduces device temperature in many wound devices including solenoids, ignition and clutch coils, surface mount coils, and transformers.