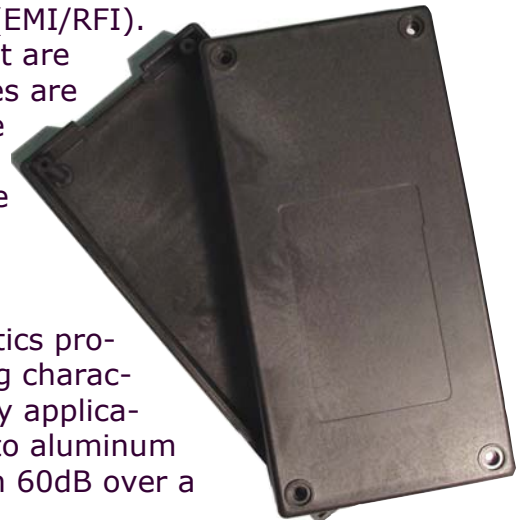


COOLPOLY® THERMALLY CONDUCTIVE PLASTICS

FOR SHIELDED PLASTIC ENCLOSURES

Many electronic enclosures require both heat transfer and shielding from electromagnetic or radio frequency interference (EMI/RFI). Metal enclosures can provide these properties but are often too heavy or undesirable. Plastic enclosures are sometimes painted, plated or modified to provide shielding properties but are thermally insulative and restrict heat flow. An ideal solution would be a single material that could provide low weight, thermal conductivity, and EMI/RFI shielding.

CoolPoly thermally conductive and shielding plastics provide both the required heat transfer and shielding characteristics in an injection moldable plastic. In many applications, the CoolPoly plastic transfers heat similar to aluminum and provides EMI/RFI attenuation of greater than 60dB over a broad frequency range.



Electronic enclosures molded from CoolPoly shielding plastics offer:

- REDUCED DEVICE TEMPERATURE
- REQUIRED HEAT TRANSFER OR THERMAL MANAGEMENT
- SHIELDING OR EMI/RFI
- ENVIRONMENTAL RESISTANCE
- IMPACT STRENGTH
- FLAME RETARDANCY

CoolPoly E4505 is used to mold electronic enclosures while providing both heat transfer and EMI/RFI shielding.