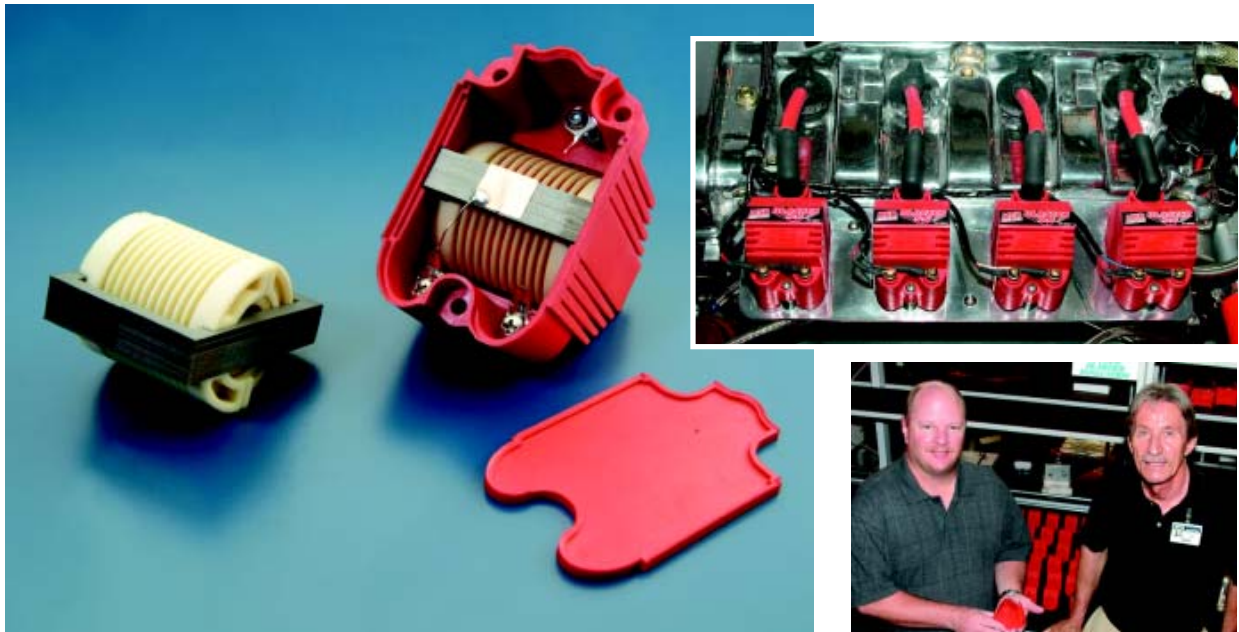


DuPont™ Thermx® PCT

high performance polyester resin

When Extra Performance Counts...



MSD Ignition, a world leader in performance ignition technology, is stepping up to DuPont™ Thermx® PCT for coil forms in its MSD® ignition coils.

The first MSD® coil to go to Thermx® PCT is the Blaster SS, often mounted one-per-cylinder in modified street cars and stock car racers. Made with efficient E-core windings, Blaster SS packs a powerful punch: 300 milliamps at up to 40,000 V. Coils using Thermx® withstand open circuit bench tests conducted by MSD at 70,000 V, the limit of its test rig, with no arcing or cracking of the coil form.

Manufacturer

MSD Ignition, a unit of Autotronic Controls Corporation
El Paso, Texas, USA
Phone: 915-857-5200
www.msdisignition.com

Benefits Gained

High-temperature performance. Thermx® is an excellent insulator at elevated temperature. The dielectric strength of Thermx® CG033, the resin for the Blaster SS coil form, is 25 kV/mm at 150°C. (ASTM D149, 1.5 mm).

Downsizing potential. The outstanding dielectric properties of Thermx® at elevated temperatures open up possibilities for reducing coil size with the use of thinner-walled bobbins.

Vibration resistance. The coils are potted in epoxy, which adheres very well to Thermx® to provide vibration resistance, according to MSD Ignition.

Sales manager Russell Stephens (left) and process engineer Lynn Kiphart of MSD Ignition see major benefits for their customers with Thermx® PCT.

Materials Selected, and Why

For the coil form, Thermx® CG033 meets needs for outstanding dielectric performance at elevated temperatures, strength, toughness and adhesion to epoxy. The coil's housing and cover are molded from DuPont™ Rynite® FR530 PET polyester, which provides good strength, stiffness and toughness at under-the-hood temperatures.

For More Information...

plastics.dupont.com



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