Application Profile

Bobbin Meets Need for High-Voltage Performance in Ignition Coil

Application Description
Ignition coil for small gasoline-powered engines relies on a coil bobbin injection molded from Rynite® PET.

Molder
Broadview Injection Molding Co., Inc. 
Broadview, IL
Phone: (708) 345-6710. Fax: (708) 345-7675.

End User
Walbro Corp., Electronics Div., Nogales, AZ

Start with DuPont

Benefits Gained
Reliable high-voltage performance. Rynite® PET provides the high dielectric strength and low moisture absorption required to avoid arcing at high operating voltage, even for coils assembled or used in humid environments. The coil typically operates at 16 to 17 kV. It is tested at 27 kV.

Technical assistance. Based on its knowledge of engineering plastics and close relationship with DuPont, Broadview recommended Rynite® PET to Walbro as the best solution to this application’s requirements.

Material Selected and Why
Rynite® 530 fulfills requirements for retention of outstanding dielectric properties in humid conditions, dimensional stability, strength and ease of molding in thin-wall components.