

# AKRON PLASTICS

## THERMOSETS

Custom-Molded Plastics  
Thermoset Technology

Since 1957, our engineers have designed hundreds of multi-cavity production tools that currently produce complex parts on a mass-production basis.

Thermoset materials differ from Thermoplastic molding compounds due to a change in chemistry exhibited during the cure portion of the molding process. In short, the material "sets up" and "kicks over" into a different chemistry that provides desired molded part characteristics.

AKRON Porcelain & Plastics has the equipment, design expertise for parts and tools, and plant capacity to handle any Thermoset-molded plastic need. Thermoset plastics continue to be very cost-effective on a cost-per-cubic-inch comparison to other plastic raw material selections.

Thermoset plastic molding compounds were developed primarily to satisfy the following molded part criteria:

1. High-heat resistance while maintaining physical strength properties
2. Chemical resistance
3. Electrical insulation (arc & track resistance)
4. Dimensional stability



In the automotive sector, we are one of the leading suppliers in the design and manufacture of ashtray assemblies, which combine high-heat performance and interior trim styling together in an assembled module.



### Industries Served

Electrical Distribution   Automotive   Major Appliance  
Commercial Lighting   Specialty Parts

### Materials Technology

Phenolics - Injection/Compression • Glass-Filled Phenolics - Injection/Compression  
Glass-Filled Polyesters - Injection/Compression • Bulk Molding Compound - (BMC)  
Sheet Molding Compound - (SMC) • Ureas • Alkyds



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