

Innovation
Awards Program



"Most Innovative Use of Plastics"

2012 Finalist

Performance and Customization
Ford Motor Co.
2013MY Ford Mustang
Illuminated Engine Cover

Colonial Plastics, Inc.

Colonial Mold, Inc. EMS-Grivory America

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Process/Assembly/Enabling Technologies
Ford Motor Co.
2013MY Ford Mustang
Illuminated Grille Badge

Colonial Plastics, Inc.

Colonial Mold, Inc. Entec



Performance & Customization

Illuminated Engine Cover

OEM/Vehicle

Ford Motor Co.

2013MY Ford Mustang

System Supplier

Colonial Plastics, Inc.

Material Processor

Colonial Plastics, Inc.

Material Supplier

EMS-Grivory America

Resin

Grilamid TR 55 LX Nylon Blend

Tooling/Equipment Supplier

Colonial Mold, Inc.



A unique combination of injection-molded PMMA, PC, and high-temperature (to 300F/149C) PA are used to provide thermal and chemical resistance for this engine cover, which has a chromed appearance during daylight but is illuminated in low-light conditions. The TECHNO (translucent, electrochromatic, high-intensity novelty optics) process applies an electrochromatic layer and sealed low-voltage wiring/LED assembly that replaces the hazardous, time consuming, and costly chrome plating process while creating a unique effect that will not flake, peel or delaminate over time. The assembly is available on new vehicles or can be retrofit back 4 years.



Process/Assembly/Enabling Technologies

Illuminated Grille Badge

OEM/Vehicle

Ford Motor Co.

2013MY Ford Mustang

System Supplier

Colonial Plastics, Inc.

Material Processor

Colonial Plastics, Inc.

Material Supplier

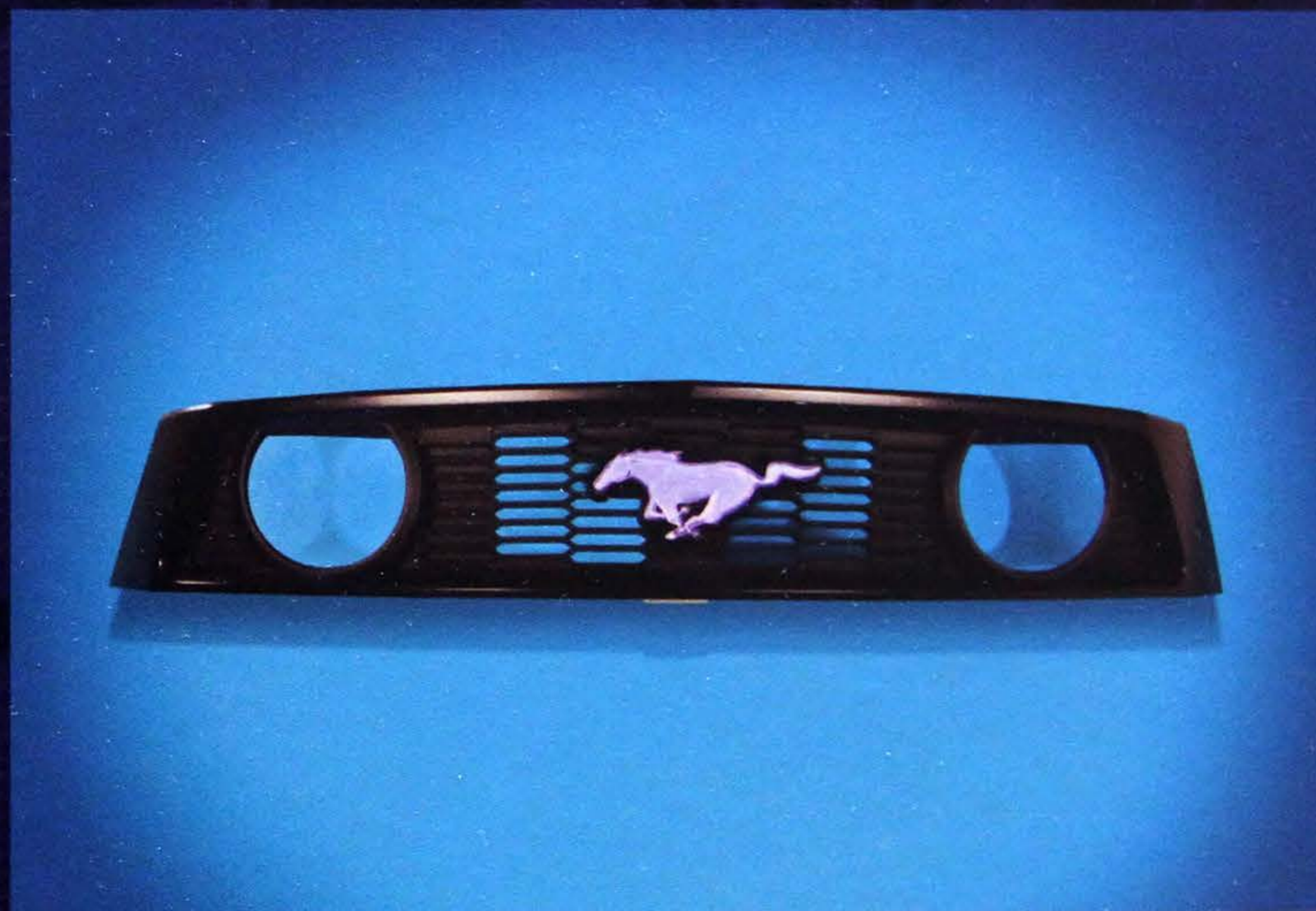
Entec

Resin

PMMA

Tooling/Equipment Supplier

Colonial Mold, Inc.



During daylight, this unique grille badge displays a 3D chromed look, but in low light it is illuminated -- an industry-first for exterior ornamentation. Injection-molded PMMA with crushed glass particles (for a sparkly look) and the unique TECHNO (translucent, electro-chromatic, high-intensity novelty optics) process for applying an electro-chromatic layer and sealed low-voltage wiring/LED assembly replaces the hazardous, time consuming, and costly chrome plating process while creating a unique effect that will not flake, peel or delaminate over time. The part is serviceable without removing the grille and can be installed on current or previous models.