



Zytel®

nylon resin

Firefighters Get a Tough Grip That Feels and Looks Better Than Metal



Application Description

Mid-Matic fire hose nozzles now come with a form-fitting pistol grip engineered for secure, comfortable holding as well as rugged use. The ergonomic pistol grip is molded from DuPont Zytel® ST super tough nylon resin. The nozzles' shutoff handles have a two-part cover molded from a toughened, glass-reinforced grade of Zytel®.

Manufacturer

Task Force Tips, Valparaiso, IN
 Phone: (800) 348-2686
 Fax: (219) 548-1094
 Website: www.tft.com

Start
with
DuPont

H-85887 (01/00)

Benefits Gained

Withstands rugged use. In Task Force Tip's punishing tests, the new grips performed just as well as aluminum units previously used. In extreme impact tests, grips made of super tough Zytel® ST bounced back to their original shape while aluminum units became permanently deformed.

Lower manufacturing costs. Grips molded by TFT from Zytel® ST are ready for use with no secondary finishing. By contrast, out-sourced aluminum parts required three finishing steps: machining, hard coating and powder coating.

Durable color. TFT molds the grips and handles in seven colors for ready identification of different types of Mid-Matic nozzles. Molded-in color holds up far better than the powder coating on aluminum parts.

Material Selected and Why

For the grips, Zytel® ST801 meets requirements for outstanding impact resistance, high strength, molded-in colors, blemish-free surfaces and excellent molding productivity. For handle covers, Zytel® 8018HS provides good colorability, plus an excellent balance of strength, stiffness and toughness.