



Zytel® ST

super tough nylon resin

Rugged, Multifunctional Parts Make a Do-It-All Rescue Tool



Application Description

Engineered for firefighters and rescue workers, the Res-Q-Rench (patent pending) multi-purpose tool relies on DuPont Zytel® ST super tough nylon resin for its two main components. The tool incorporates wrenches for fire hose couplings and residential gas supplies, and it holds a steel blade to cut seat belts and a tungsten carbide punch to shatter tempered glass. It serves as a window pry bar, too. Folded on a metal hinge pin, the tool fits in the worker's coat pocket. Unfolded for duty, the device measures 12.375 in. (314 mm) long.

Manufacturer

Task Force Tips, Valparaiso, IN
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Website: www.tft.com

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H-85888 (01/00)

Benefits Gained

Withstands rugged use. TFT's rigorous testing shows that the Res-Q-Rench stands up to heavy use and impact in emergency situations.

More functionality, simpler assembly. The moldability and mechanical properties of Zytel® ST gave TFT's designers the freedom to incorporate more functional and assembly features than metal rescue tools. Assembly features include integral detents to hold the tool open or closed and provide snap-fit retention of its hinge pin.

Light weight. Res-Q-Rench weighs only 5 oz (142 g), much less than conventional metal spanner wrenches.

Good looks. Zytel® ST801 faithfully replicates matte surfaces and fine details required for TFT's high standards for appearance.

Molding support. DuPont specialists recommended a mold gating change that improved part quality.

Material Selected and Why

Zytel® ST801 meets requirements for superior toughness, good strength, resilience, moldability and attractive molded surfaces.

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