



DUPONT®

**Kevlar.**

## **DUPONT™ KEVLAR® XP H170 HELMETS: ADVANCED HEAD PROTECTION**

### **Light weight head protection from DuPont™ Kevlar® XP H170**

For military combat and police personnel, the right helmet is crucial for effective day-to-day duty and – ultimately – for survival. DuPont™ Kevlar® XP H170 provides a light weight, comfortable solution to advanced head protection.

Exceptionally tough, Kevlar® XP H170 helmets ensure good ballistic performance, durability and backface deformation, while offering a 20-25% lower shell weight than existing aramid-phenolic solutions.

## DUPONT™ KEVLAR® XP H170 HELMETS: ADVANCED HEAD PROTECTION

### WHY CHOOSE DUPONT™ KEVLAR® XP H170 HELMETS?

- Higher protection per weight than existing aramid-phenolic solutions: shell weight reduced by 20-25%
- Improved ballistic performance, resisting impact from fragments and bullets
- High performance Kevlar® phenolic inner and outer skins provide maximum strength
- Meets typical backface deformation requirements for military combat and police helmets
- Allows greater design flexibility
- Can be processed using a broad range of conditions
- Enables co-processing with existing thermoplastic and Kevlar® phenolic systems
- A lighter weight, more flexible, high performance solution

### THE DUPONT SCIENCE BEHIND DUPONT™ KEVLAR® XP H170 HELMETS

Developed by DuPont, a science company creating sustainable solutions, DuPont™ Kevlar® advanced head protection is a hybrid of Kevlar® thermoplastic resin prepreg and conventional Kevlar® phenolic prepreg. The material consists of high performance Kevlar® KM2 Plus fibre combined with a proprietary tough thermoplastic resin matrix core – giving it an enhanced ballistic strength – layered between an inner and outer skin of high performance Kevlar® phenolic prepreg.

DuPont™ Kevlar® XP H170 can be cut and compression molded, using typical hydraulic pressing equipment and molds, to obtain the desired helmet contour. It is designed to be co-molded with skins of other fibre-reinforced plastic materials to enhance structural integrity, and – for optimum performance – should be co-molded with Kevlar® KM2 or Kevlar® 129 based phenolic prepreps.

### TRIED AND TRUSTED SOLUTION

DuPont™ Kevlar® XP H170 is one of a wide range of life protection products based on DuPont™ Kevlar® aramid fibre. First developed by scientists from DuPont in 1965 using groundbreaking liquid crystalline polymer research, DuPont™ Kevlar® brand fibre is five times stronger than steel yet lightweight and flexible. Continuously improved through innovation over four decades, it is trusted for military and police applications such as body armour, protective vests, helmets and vehicle armour, and has helped save thousands of people from death or serious injury.

### TO FIND OUT MORE ABOUT DUPONT™ KEVLAR® XP H170 HELMETS, PLEASE CONTACT YOUR LOCAL DUPONT REPRESENTATIVE.

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