

M A D E

l N

## reinventing lightweight protection



#### WHAT IS PBI LP™?

PBI LP<sup>™</sup> is a revolutionary new PBI fiber that maximizes flame and break-open protection in lighter weight outer shells.

#### HOW IS THAT POSSIBLE?

We were able to achieve this by strengthening the bonds between the PBI polymer chains. That allows us to make much lighter outer shells while increasing flame resistance and break-open protection.



### WHY CHOOSE PBI LP<sup>™</sup>?

- High break-open and flame protection
- Reduced risk of heat stress
- Greater freedom of movement
- More flexibility



#### **A NEW PBI FIBER** ENGINEERED SPECIFICALLY FOR LIGHT-WEIGHT FABRIC TECHNOLOGIES



#### PBI MAX LP **OUTER SHELL FEATURES**









STRENGTH - Trap Tear 115 lbs as received 50 lbs after 180 Hours UV

**Decomposition** Temperature 1600 1400 1200 1000 °F 800 600 400 200

+200°F OF BREAK-OPEN

The decomposition tem-

perature of PBI LP fiber is

outer shells the most

protective fabrics

available

~1500°F, making PBI LP

Test is used to demonstrate the time it takes for an outer shell fabric to break down. PBI LP<sup>™</sup> lasts over 40 seconds while any Nomex® /Kevlar® blend lasts only 3-4 seconds.

WHAT OUTER SHELLS ARE MADE WITH PBI LP<sup>™</sup>?

#### PBI Max<sup>™</sup> LP

With proven filament twill technology, this 6 oz. outer shell offers high resistance to rips and tears and now, the flame and break-open protection of traditional weight outer shells.

ADE WITH PBI LP AND Filament Kevla **30%** filament 70% spun

# maximized protection in light-weight fabrics

SECONDS **OF BREAK-OPEN** 

#### The Dynamic Flame

MORE **30%** FLAME RESISTANCE

Outer shells made with PBI LP<sup>™</sup> offer **30% more** flame resistance than traditional PBI fabrics.

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