Enhanced Protection against Heat and Flame

GORE® PYRAD™ Flame Retardant is an innovative, self-extinguishing fabric technology that adds heat and flame protection properties to non-FR textiles. When laminated to nylon, polyester and other fabrics, GORE® PYRAD™ Flame Retardant provide excellent protection against heat and fire by balancing flame resistance, thermal insulation, and thermal stability.

The use of traditional non-FR textiles allows garments to leverage key attributes of the non-FR textile, such as low water pick-up, abrasion resistance, and the production of FR HI-VIS laminates. Without GORE® PYRAD™ Flame Retardant technology, traditional non-FR textiles continue to propagate flame, exhibit melting and dripping, and increase the potential of burn injury to the skin.

GORE® PYRAD™ Flame Retardant technology increases thermal protective performance and reduces potential for burn injury. It also offers an improvement in thermal stability by maintaining physical integrity after exposure.

Benefits of GORE® PYRAD™ Flame Retardant Technology

- Enhanced flame and thermal protection combined with benefits of non-flame resistant textiles
- Meets applicable test required for self-extinguishing
- Long-lasting integrity of garment with increased thermal stability
- Increased flexibility for applications such as high visibility, anti-static, opacity, and printing
Thermal Protective Performance

GORE® PYRAD™ Flame Retardant technology delivers almost twice the level of TPP when compared to traditional FR fabrics of the same weight (oz/yd²). This technology also provides better TPP than aramid fabrics of much lighter weights (oz/yd²).

Durable Performance

GORE® PYRAD™ Flame Retardant technology maintains its excellent protective properties for the life of the garment. Its abrasion-resistant construction remains colorfast and withstands environmental conditions without compromising the garment’s integrity even in cold and wet environments.

Superior Integrity After Flashover

Garments made with GORE® PYRAD™ Flame Retardant technology maintain outstanding break strength even after exposure to flashover conditions.

Flexibility in Garment Design

Unlike traditional FR fabrics, GORE® PYRAD™ Flame Retardant technology is an enabling technology that allows you to select the base fabric and additional properties that best meets the needs of your application, including:

- High visibility
- Anti-static protection
- Abrasion-resistance
- Waterproof protection
- Lightweight fabrics
- High breathability
- Fast drying