

POWERPLY COLPRO TP250

Powerply COLPRO TP250 is a chemical and biological warfare agent resistant flexible material used for the manufacture of Collective Protection (COLPRO) tent liners and emergency shelters.

The material is approved for UCPS (Unhardened Collective Protection System) applications. Other applications include body bags, decontamination units, rapid deployment civil defence shelters, strategic and tactical fall-out canopies and covers for stores and equipment, water reservoirs and storage tanks.

Powerply COLPRO is a high performance composite chemical barrier membrane incorporating a closely woven high tenacity fabric to provide good tensile strength and puncture resistance. It features a lightweight yet strong construction with excellent mechanical properties.

Resistant to chemical and biological warfare agents, it is also impervious to nuclear particulates.

The material is translucent to allow natural sunlight or exterior lighting to illuminate the inside and it is self-extinguishing due to its Flame Retardant characteristics.

Gastight seams and joins are possible using standard thermal bonding (hot air and/or hot wedge) assembly techniques. The material is flexible and easy to work with and panels can be supplied with gas-tight zips pre-installed.

Powerply COLPRO can also be laminated to other materials such as thermal insulation and reflective foils depending upon customer-specific technical requirements.

Powerply is in service with the British and other NATO Armed Forces. Powerply has also been assessed by the US Army Research Development and Engineering Command (RDECOM) Collective Protection Technology Readiness Evaluation TRL8 – actual system completed and qualified through test and demonstration..



Powerply CW & BW agent resistant liner. Note the airlock design.



Typical UCPS Unhardened Chemical Protection System.



Translucent for maximum light penetration.

Performance summary

MIL-STD-282 (method 204 & 206)
DSTL CW penetration (liquid)
DSTL CW penetration (vapour)

HD GB series
HD G V series
HD GD VX series

No break within 72 hours
No penetration within 48 hours
No penetration within 24 hours

Features

- Flame Retardant
- Flexible
- Lightweight
- High tensile strength
- Puncture resistant
- Translucent

Applications

- Body bags
- Civil defence shelters
- Collective protection systems
- Decontamination units
- Fall-out covers

Other publications

- Executive brief
 - MSDS Information
 - Product Data
- Latest downloads available at www.powerply.com