

POWERLON® UltraBlock is a range of thermo-reflective air barriers and vapour control layers incorporating encapsulated aluminium foil or metallised barrier layers to maximise energy efficiency. The reflective foil surface improves the insulation characteristics of the installation, reflecting heat back into the building.

POWERLON® UltraBlock SA is a self-adhesive version of ITP's thermo-reflective air barrier and vapour control layer.

POWERLON® VCLs are polyethylene-based vapour control membranes with a mono-filament reinforcement scrim to provide sufficient tensile strength in wall and roof insulations.

Air and Vapour Control Layers (AVCLs) ensure that the building envelope is properly sealed to control ventilation and prevent heat loss in compliance with Building Regulations Part L. Installed on the warm side of insulation, AVCLs protect insulates from interstitial condensation.

| PRODUCT | Colour | Weight EN 1849-2 gsm | Tensile strength EN 12311-1 EN 12311-2 N/50mm | Nail tear resistance EN 12310-1 Newtons | Temperature range °C | Water vapour resistance | Water vapour permeability gm ² day | Thermal reflectivity ASTM C1371-04A | Thermal emissivity | UV resistance | Sizes metres | Roll weight kg | Pallet quantity rolls |
|--|------------------|----------------------------|--|---|-------------------------|--|--|--|--------------------|---------------|-------------------------------------|----------------------|--------------------------|
| THERMO-REFLECTIVE AIR AND VAPOUR CONTROL LAYERS | | | | | | | | | | | | | |
| UltraBlock 300 | Silver/ Green | 270 | MD 400/XD 300 MD 290/XD 300 | MD 140/XD 230 MD 260/XD 265 | -40 to +70 | >25,000 MNs/g BS 3177 | < 0.01 EN 1931 EN 12572(c) | 0.54 | 0.46 | 3 months | 2.0 x 50 | 28 | 25 |
| UltraBlock 200 | Silver/ Clear | 104 | MD 185 XD 184 | MD 110 XD 87 | -40 to +70 | >630 MNs/g BS 3177 | 0.5 ASTM F 1249-90 | 0.64 | 0.36 | 3 months | 1.6 x 50 | 8.8 | 50 |
| UltraBlock 150 | Silver/ White | 100 | MD 200 XD 185 | MD 230 XD 160 | -40 to +70 | ~600 MNs/g Sd 25-35m EN 1931 | 1 - 1.6 ASTM F 1249-90 | 0.90 | 0.10 | 3 months | 1.5 x 100 2.7 x 100 3.0 x 100 | 16.0 27.5 30.5 | 27 27 27 |
| UltraBlock SA | Silver/ White | 190 | MD 850 XD 500 | MD 250 XD 400 | -40 to +70 | >7,500 MNs/g Sd >1,500m EN 1931/ EN 12572, C | NA | NT | NT | 3 months | 1.5 x 100 | 29.5 | 20 |
| VAPOUR CONTROL LAYERS | | | | | | | | | | | | | |
| VCL 250 | Clear | 285 | MD 585 XD 430 | MD 250 XD 300 | -40 to +70 | 530 MNs/g BS 3177 | 0.39 DIN 53122 | NA | NA | 3 months | 2.0 x 50 | 29 | 33 |
| VCL 170 | Clear | 210 | MD 465 XD 415 | MD 310 XD 355 | -40 to +70 | 336 MNs/g BS 3177 | 0.61 DIN 53122 | NA | NA | 3 months | 2.0 x 50 | 21.5 | 33 |

Note: Proprietary accessories, adhesives and sealants must be used to validate any warranties

Other Powerlon products: UV Resistant Façade Membranes • Wall Breathers • Universal Breathable Roofing Felts • Air Barriers • Condensation Control Fleece

DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

Subject to the limitations, disclaimers and statements as set forth below, Industrial Textiles & Plastics Ltd represents to the Buyer that the product or products delivered to the Buyer conform(s) to the manufacturer's description and specifications attached to or delivered with the product.

The representation that Industrial Textiles & Plastics Ltd makes to the Buyer that the product or products conform(s) to the manufacturer's description and specifications applies only under such circumstances when the Buyer utilises the product or products as specified and under normal use for which said product was intended.

Any alleged nonconformity shall be made in writing to Industrial Textiles & Plastics Ltd specifically stating and describing any such alleged nonconformity.

The representation by Industrial Textiles & Plastics Ltd that the product or products delivered to the Buyer conform(s) to the manufacturer's description and specification as attached to or delivered with the product is expressly in lieu of all other representations, warranties, expressed or implied, and of all other obligations and liabilities, including consequential damages, on the part of Industrial Textiles & Plastics Ltd. Industrial Textiles & Plastics Ltd neither assumes nor authorises any person to assume for it any other liability in connection with the sale of the product.

The representation of conformity by Industrial Textiles & Plastics Ltd as represented by Industrial Textiles & Plastics Ltd shall in addition to the above be null and void in the event that the product is misused or handled in a negligent manner by Buyer or any third party.

Industrial Textiles & Plastics Ltd shall not be liable for damages or delays, if such occur, on account of defective material or workmanship or delays in shipment, nor will any allowances be granted for any repairs, alterations, work done or expense incurred in connection with any repairs, alterations or replacements except on specific written authority by Industrial Textiles & Plastics Ltd.

Industrial Textiles & Plastics Ltd shall in no way be liable or responsible for injuries or damages to persons or property arising out of the use or operation of the product as herein contemplated, and Buyer hereby agrees to indemnify and save harmless Industrial Textiles & Plastics Ltd from all such liability and responsibility.

Industrial Textiles & Plastics Ltd shall not be liable for any consequential damages for any reason including but not limited to those contemplated herein and whether such consequential damages may have been foreseeable, proximately caused or otherwise occurring.

Due to a policy of continued research and development, Industrial Textiles & Plastics Ltd reserves the right to alter specifications without notice. Products are offered subject to our normal Conditions of Sale, which are available on request.

Samples and specifications are of an illustrative nature and supplied free of charge. They do not form part of any contract or any intended contract with the user. Final determination of the suitability of any information or material for the use contemplated and the manner of use is the sole responsibility of the user and the user must assume all risk and liability in connection therewith.

This disclaimer of Express or Implied Warranties constitutes a significant limitation on the rights and remedies otherwise available to the Buyer, which the Buyer freely and voluntarily acknowledges and accepts as part of the consideration for the contract to purchase the product or products from Industrial Textiles & Plastics Ltd.

Test Results are obtained under laboratory conditions on new material and not under actual usage conditions. Test results only relate to the sample tested. No warranties or assurances of reliability, suitability or fitness for a particular purpose of specimens or data are offered. Assessment of suitability of such material and data for intended use is the sole responsibility of the customer.