



DuPont™ ProShield® 20 , PBCHF5SWH00



Technical Data Sheet

DuPont ProShield® 20 White. Hooded coverall. Stitched external seams. Elasticated wrists, ankles and face. Elasticated waist (stitched-in). Zipper flap. White.

Certifications

- Certified according to Regulation (EU) 2016/425
- Chemical protective clothing, Category III, Type 5 and 6
- EN 1073-2 (protection against radioactive contamination)
- Antistatic treatment (EN 1149-5) - on both sides

Packaging(Quantity/Box)

50 per box, individually packed.

Product Size	Article Number	Additional info
SM	D15338118	
MD	D15338122	
LG	D15338134	
XL	D15338149	
2X	D15338157	
3X	D15338160	

Full Part Number: PBCHF5SWH00



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PHYSICAL PROPERTIES

Property	Test Method	Result	EN
Abrasion Resistance ⁷	EN 530 Method 2	>10 cycles	1/6 ¹
Basis Weight	DIN EN ISO 536	43 g/m ²	N/A
Colour	N/A	White	N/A
Exposure to high Temperature	N/A	Melting point ~165 °C	N/A
Flex Cracking Resistance ⁷	EN ISO 7854 Method B	>1000 cycles	1/6 ¹
Puncture Resistance	EN 863	>5 N	1/6 ¹
Resistance to Water Penetration	DIN EN 20811	3 kPa	N/A
Surface Resistance at RH 25%, inside ⁷	EN 1149-1	< 2,5 • 10 ⁹ Ohm	N/A
Surface Resistance at RH 25%, outside ⁷	EN 1149-1	< 2,5 • 10 ⁹ Ohm	N/A
Tensile Strength (MD)	DIN EN ISO 13934-1	>30 N	1/6 ¹
Tensile Strength (XD)	DIN EN ISO 13934-1	>30 N	1/6 ¹
Trapezoidal Tear Resistance (MD)	EN ISO 9073-4	>10 N	1/6 ¹
Trapezoidal Tear Resistance (XD)	EN ISO 9073-4	>10 N	1/6 ¹

¹ According to EN 14325 ² According to EN 14126 ³ According to EN 1073-2 ⁴ According to EN 14116 ¹² According to EN 11612 ⁵ Front Tyvek ® / Back ⁶ Based on test according to ASTM D-572 ⁷ See Instructions for Use for further information, limitations and warnings **>** Larger than **<** Smaller than **N/A** Not Applicable **STD DEV** Standard Deviation

GARMENT PERFORMANCE

Property	Test Method	Result	EN
Nominal protection factor ⁷	EN 1073-2	>5	1/3 ³
Seam Strength	EN ISO 13935-2	>50 N	2/6 ¹
Shelf Life ⁷	N/A	3 years ⁶	N/A
Type 5: Inward Leakage ¹¹	EN ISO 13982-2	14 %	N/A
Type 5: Inward Leakage of Airborne Solid Particulates	EN ISO 13982-2	Pass ⁷	N/A
Type 6: Resistance to Penetration by Liquids (Low Level Spray Test)	EN ISO 17491-4, Method A	Pass	N/A

¹ According to EN 14325 ³ According to EN 1073-2 ¹² According to EN 11612 ¹³ According to EN 11611 ⁵ Front Tyvek ® / Back ⁶ Based on test according to ASTM D-572 ⁷ See Instructions for Use for further information, limitations and warnings ¹¹ Based on the average of 10 suits, 3 activities, 3 probes **>** Larger than **<** Smaller than **N/A** Not Applicable ^{*} Based on lowest single value



PENETRATION AND REPELLENCY

Property	Test Method	Result	EN
Repellency to Liquids, Sodium Hydroxide (10%)	EN ISO 6530	>80 %	1/3 ¹
Repellency to Liquids, Sulphuric Acid (30%)	EN ISO 6530	>95 %	3/3 ¹
Resistance to Penetration by Liquids, Sodium Hydroxide (10%)	EN ISO 6530	<5 %	2/3 ¹
Resistance to Penetration by Liquids, Sulphuric Acid (30%)	EN ISO 6530	<5 %	2/3 ¹

¹ According to EN 14325 ➤ Larger than < Smaller than



Important Note

The permeation data published have been generated for DuPont by independent accredited testing laboratories according to the test method applicable at that time (EN ISO 6529 (method A and B), ASTM F739, ASTM F1383, ASTM D6978, EN369, EN 374-3)

The data is typically the average of three fabrics samples tested.

All chemicals have been tested at an assay of greater than 95 (w/w) % unless otherwise stated.

The tests were performed between 20 °C and 27°C and at environmental pressure unless otherwise stated.

A different temperature may have significant influence on the breakthrough time.

Permeation typically increases with temperature.

Cumulative permeation data have been measured or have been calculated based on minimum detectable permeation rate.

Cytostatic drugs testing has been performed at a test temperature of 27°C according to ASTM D6978 or ISO 6529 with the additional requirement of reporting a normalized breakthrough time at 0.01 µg/cm²/min.

Chemical warfare agents (Lewisite, Sarin, Soman, Mustard, Tabun and VX Nerve Agent) have been tested according to MIL-STD-282 at 22°C or according to FINABEL 0.7 at 37°C.

Permeation data for Tyvek® is applicable to white Tyvek® 500 and Tyvek® 600 only and is not applicable for other Tyvek® styles or colours.

Permeation data are usually measured for single chemicals. The permeation characteristics of mixtures can often deviate considerably from the behaviour of the individual chemicals.

The permeation data for gloves published have been generated according to ASTM F739 and to ASTM F1383.

The degradation data for gloves published have been generated based on a gravimetric method.

This degradation testing exposes one side of the glove material to the test chemical for four hours. The percent weight change after exposure is measured at four time intervals: 5, 30, 60 and 240 minutes.

Degradation Ratings:

- E: EXCELLENT (0-10% Weight Change)
- G: GOOD (11-20% Weight Change)
- F: FAIR (21-30% Weight Change)
- P: POOR (31-50% Weight Change)
- NR: NOT RECOMMENDED (Above 50% Weight Change)
- NT: NOT TESTED

Degradation is the physical change in a material after chemical exposure. Typical observable effects may be swelling, wrinkling, deterioration, or delamination. Strength loss may also occur.

Please use the permeation data provided as a part of the risk assessment to assist with the selection of a protective fabric, garment, glove or accessory suitable for your application.

Breakthrough time is not the same as safe wear time. Breakthrough times are indicative of the barrier performance, but results can vary between the test methods and laboratories. Breakthrough time alone is insufficient to determine how long a garment may be worn once the garment has been contaminated. Safe user wear time may be longer or shorter than the breakthrough time depending on the permeation behaviour of the substance, the toxicity of the substance, working conditions and the exposure conditions (e.g. temperature, pressure, concentration, physical state).

Latest Update Permeation Data: 18/11/2019

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- This garment and/or fabric are not flame resistant and should not be used around heat, open flame, sparks or in potentially flammable environments.
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