



Product name	AlphaTec® LIGHT
Product material	Polyester fabric coated on both sides with PVC
Colour available	Orange
Material weight (nominal)	530 g/m ²

Physical Properties - EN 943-1:2015, EN 943-2:2002, EN 14325:2018

Property	Test Method	Result	EN Class
Abrasion	EN 530	>2 000 Cycles	6 of 6
Flex cracking	EN ISO 7854:B	>50 000 Cycles	6* of 6
Flex cracking @ -30 °c		>4 000 Cycles	6 of 6
Tear resistance	EN ISO 9073-4	>60 N	4 of 6
Tensile strength	EN ISO 13934-1	>1 000 N	6 of 6
Puncture resistance	EN 863	>50 N	3 of 6
Resistance to flame	EN 13274-4, method 3	1 sec	2 of 3
Seam Strength	EN ISO 13935-2	>500 N	6 of 6

*LIGHT material also passes Class 6 of EN 14325:2004 (>100,000 cycles)

Additional Testing

Property	Test Method	Result	EN Class
Anti-static properties (EN 1149-5)	EN 1149-3 (Decay time)	$t_{50} < 0.16$ s	Pass

Chemical Permeation Performance - EN 943-1:2015, EN 14325:2004

Test Chemical	CAS No.	BT _{1.0} (mins)	EN Class
Formaldehyde (37%)	50-00-0	>480	6 of 6
Hydrochloric acid (37%)	7647-01-0	>480	6 of 6
Sodium hydroxide (40%)	1310-73-2	>480	6 of 6
Sulphuric acid (50%)	7664-93-9	>480	6 of 6

Tests performed according to EN 374-3 or ISO 6529, breakthrough criterion 1 µg/cm²/min, test duration 8 hours.

Barrier to Infective Agents - EN 14126:2003

Test Method		Result	EN Class
Resistance to penetration by synthetic blood	ISO 16603	Pass	6 of 6
Resistance to penetration by blood borne pathogens	ISO 16604	Pass	6 of 6
Resistance to wet bacterial penetration (mechanical contact)	EN ISO 22610	No penetration	6 of 6
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration	3 of 3
Resistance to dry microbial penetration	ISO 22612	No penetration	3 of 3

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Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Ansell Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Ansell Limited with each garment. Ansell 2023. All rights Reserved.