





POLAR - body warmer		
Description	<ul style="list-style-type: none"> • longer back side, • hand pocket with fleece lining, • internal pocket with zip, • breast pocket with coated zip, • loop for headset, • mobile phone pocket with E-WARD, • lining with shoulder part made of fleece, • <i>Reflective Material</i> reflex inserts - 8910 Silver Fabric, • adjustable foldaway hood, • back wide pocket, • side splits, • wide front pockets, • internal bottom zip, • YKK® zip. 	
		
Maintenance	Maximum wash temperature: 30°C ; Do not bleach; Do not dry in a tumble dryer; Do not dry clean; Do not iron.	
		Item V013-0-00 Khaki/black V013-0-01 Grey/black V013-0-02 Navy/black V013-0-03 Clay brown/black V013-0-04 Anthracite/black V013-0-05 Black/black
		Standards EN ISO 13688:2013 
		Sizes 44 – 64

SAFETY TECHNICAL SPECIFICATIONS

	Test method	description	Cofra result	minimum requirement / range
Background and colour insert fabric	EN ISO 1833-1977, SECTIONE 10	Composition:	100% polyurethane coated polyester	
	EN ISO 12127:1996	Weight per unit area	200 g/m ²	
	EN ISO 13688:2013 4.2 (EN 1413)	The pH's determination from the watery extract	pH: 5.6	3,5≤PH≤9,5
	EN ISO 13688:2013 4.2 (EN 14362-1:2012)	Search of the aromatic and carcinogenic amines	Not recording	≤30 ppm
	EN ISO 13688:2013 5.3 (EN ISO 6630 / ISO 5077)	Dimensional change to washing (4N/40°C)	warp: -0.5% weft: 0.0%	± 3 %

	ISO 105-C06	Colour fastness to Laundering at 60°C			1 - 5
		Colour change	4-5		
		Staining:			
		diacetate	4-5		
		cotton	4-5		
		nylon	4		
		polyester	4-5		
		acrylic	4-5		
		wool	4-5		
	ISO 105 E04	Colour fastness to perspiration	Acidic	Alkaline	1 - 5
		Colour change	4-5	4-5	
		Staining:			
		diacetate	4-5	4-5	
		cotton	4-5	4-5	
		nylon	4-5	4-5	
		polyester	4-5	4-5	
		acrylic	4-5	4-5	
		wool	4-5	4-5	
	ISO 105-X12	Colour fastness to rubbing	Dry: 4 - 5 Wet: 4 - 5		1-5
	ISO 105-B02	Colour fastness to light (test with xenon arc lamp)	4		1-5
	EN 343:2003+A1:2007 4.2 (EN 20811)	Water penetration resistance - Wp [Pa] (before each pretreatment)	> 8000 Pa	CLASS 1 CLASS 2 CLASS 3	Wp ≥ 8000 Pa no test required no test required
	EN 343:2003+A1:2007 4.2 (EN 20811)	Water penetration resistance - Wp [Pa] (after each pretreatment)	> 13000 Pa (class 3)	CLASS 1 CLASS 2 CLASS 3	no test required Wp ≥ 8.000 Pa Wp ≥ 13.000 Pa
	EN 343:2003+A1:2007 5.2 (EN 31092)	Water vapour resistance R _{et} [m ² Pa/W]	10.6 (class 3)	CLASS 1 CLASS 2 CLASS 3	R _{et} > 40 20 < R _{et} < 40 R _{et} < 20
	EN 343:2003+A1:2007 4.4 (EN ISO 1421)	Tensile strength	warp: 1419 N weft: 1052 N		450 N
	EN 343:2003+A1:2007 4.5 (EN ISO 4674)	Tearing strenght	warp: 252.78 N weft: 196.52 N		25 N
Reflex 3M™ Scotchlite™ 8910 Silver Fabric	EN ISO 20471:2013/A1:2016 6.1	Retro reflective performance requirements of new material	PASS		
	EN ISO 20471:2013/A1:2016 6.2	Requirements of retro reflective performance after tests for abrasion, flexion, folding at cold temperature, temperature variations, washing (50 cycles) and rain influence.	PASS		R' ≥ 100 cd/(lx m²)

E-Ward	<div> <div>Composition: PES/CO/MTF</div> <div>65/33/2%</div> </div> <div> <div>Weight per unit area</div> <div>215 g/mq</div> </div> <div> <div>MIL-Standard 285</div> <div> <div>Attenuation measurements for enclosures, electromagnetic shielding, for electronic test purposes</div> <div> <div>Reduction of 99,5% of the electromagnetic waves to the frequency of 200 MHz</div> <div>Reduction of 99% of the electromagnetic waves to the frequency of 2000 MHz</div> </div> </div> </div>
Padding	<div> <div>Composition:</div> <div>100% Polyester</div> </div> <div> <div>Fabric mass per unit area</div> <div>160 g/mq</div> </div>
Lining	<div> <div>Composition:</div> <div>100% Polyester</div> </div>
Hood lining	<div> <div>Composition:</div> <div>100% polyurethane coated polyester</div> </div>