



Product Specification Sheet

LUMINA ORANGE



Fabric Weight : 120 GSM

Contrasting Trim
Maximizes Daytime Visibility

Fluorescent High Visibility
Background Material for
Daytime Visibility

Retroreflective
Material for Night Time
Visibility



Specifications

ANSI Requirements	ANSI/ISEA 107-2010 Class 2
European Norm	EN ISO 20471:2013
Color	Orange/Black
Features	2" Retroreflective tape 5 Pockets, Zipper fastening
Product Type	High Visibility
Size	S1 – S8



ANSI/ISEA 107-2010

The American National Standard for High-Visibility Safety Apparel and Headwear, (ANSI/ISEA 107-2010), which sets the performance criteria for high-visibility apparel. This safety apparel consists of background material, retroreflective material, and combined-performance material:

- Background material is “colored fluorescent material intended to be highly conspicuous, but not intended to comply with the requirements... for retroreflective material.”
- Retroreflective material is “material that reflects and returns a relatively high proportion of light in a direction close to the direction from which it came.”
- Combined-performance material is “retroreflective material that is also a fluorescent material and can be counted toward the minimum area requirements for background material.”

ANSI/ISEA also has three numbered performance classifications for high visibility apparel:

Performance class 1

- Minimum background material: 217 in.²
- Minimum retroreflective material: 155 in.²
- Provides the minimum amount of required material to distinguish the wearer from the environment.
- Intended for workers whose tasks don't divert their attention from approaching traffic.
- Intended for locations where the worker is separated from traffic, which is traveling no faster than 25 mph.

Performance class 2

- Minimum background material: 775 in.²
- Minimum retroreflective material: 201 in.²
- Provides enhanced visibility during inclement weather.
- Intended for workers whose task divert their attention from approaching traffic and for those who must work near vehicles exceeding 25 mph

Performance class 3

- Minimum background material: 1240 in.²
- Minimum retroreflective material: 310 in.²
- Provides maximum visibility for workers who have tasks that place them in imminent danger from approaching traffic
- Provides maximum visibility when the wearer must be conspicuous at a minimum distance of 1,280 feet.

Note: This product has specification Class 2. A fuller explanation of the standards in this area are shown below.

EN471 - Specification for High Visibility Clothing

There are 3 classes of garment type based on the levels of conspicuity they provide. On all garments the retro-reflective tape must not be less than 50mm wide.

The table below shows typical recommended performance apparel classifications for various types of jobs. To determine the appropriate apparel, always onsider the environmental condition where you'll be working and your risk of exposure:

Type of jobs	Class 1	Class 2	Class 3
shopping cart retrievers	x		
warehouse workers	x		
delivery truck drivers	x		
roadway construction workers		x	x
utility workers		x	x
surveyors		x	x
emergency responders		x	x
flaggers			x
Adapted from ANSI/ISEA 107-2010, Appendix B			

CLASS3
THE HIGHEST LEVEL OF CONSPICUITY
 Minimum background material 0.80m²
 Minimum retro-reflective mateial 0.20m²



CLASS 2
INTERMEDIATE PROTECTION
 Minimum background material 0.50m²
 Minimum retro-reflective mateial 0.13m²



CLASS 1
LOW LEVEL PROTECTION
 Minimum background material 0.14m²
 Minimum retro-reflective mateial 0.20m²



ERP Code & Packing information:

LUMINA Orange	DESCRIPTION	SIZE	QUANTITY PER CARTON	CTN L	CTN W	CTN H	GW/NW @ KG PER CARTON	
	E108073701	S	50	44	26	43	10.70	10.20
	E108073702	M	50	44	26	43	10.70	10.20
	E108073703	L	50	44	26	43	10.70	10.20
	E108073704	XL	50	44	26	43	10.70	10.20
	E108073705	2XL	50	44	26	43	10.70	10.20
	E108073706	3XL	50	44	26	43	10.70	10.20
	E108073707	4XL	50	44	26	43	10.70	10.20
	E108073408	4XL	50	44	26	43	10.70	10.20