

Nomex[®] Arc

Nomex[®] Arc is a superior dual-hazard protective fabric that provides electricians in the industrial manufacturing and transportation industries with comfortable arc and flame protection from a range of thermal hazards. It delivers reliable >8 cal/cm² ATPV arc flash protection, along with its Nomex[®] legacy thermal protection.

Nomex[®] Arc delivers arc flash protection without compromising its flame protection.

Protection



Arc flash protection along with heat and flame resistance



Better protection at longer exposures and higher temperatures



Inherent protection; can't be washed out or worn away



Resists tears and abrasion



Extremely durable and long-lasting protective solutions

Hazards



Arc flash



Short-duration thermal exposure



Static electricity*

Color

Refer to fabric sample for true color representation.



Navy



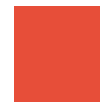
Medium blue



Royal blue



Khaki



Orange

Weight

6.5 oz/yd² / 220 g/m² (woven)
6.9 oz/yd² / 234 g/m² (knitted)**

Fiber blend

Nomex[®], Kevlar[®], antistatic fiber

*Static dissipation does not replace proper grounding in a potential Electro-Static Discharge (ESD) hazard.

**6.9 oz/yd² / 234 g/m² available only in khaki and medium blue. Fabric is not certified to EN 1149.

Certifications

Nomex[®] fabric solutions are certified to meet the listed standards.*

ASTM F1506

NFPA 2112

CGSB 155.20

ISO 11612

IEC 61482-2

EN 1149

OEKO-TEX-100

*Certifications for the fabrics vary by region. Contact a DuPont representative for additional details.

Nomex® Arc

Fabric protection performance

Property	Standard	Units/description	Nomex® Arc	Nomex® Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	—	oz/yd ² (g/m ²)	6.5 (220)	6.9 (234)
Arc Rating (Arc Thermal Performance Value [ATPV])	ASTM F1959 IEC 61482-1-1	cal/cm ²	>8 (9.2)	>8 (10-11)
Energy Breakopen Threshold (EBT)	ASTM F1959 IEC 61482-1-1	cal/cm ²	>8 (9.5)	>8 (10)
Thermal manikin	NFPA 2112	TPBI (%)	12	8
Box test	IEC 61482-1-2	Rating	Class 1	Class 1

Typical physical properties (ASTM, NFPA)

Property	Standard	Units/description	Nomex® Arc	Nomex® Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	ASTM D3776	oz/yd ²	6.5	6.9
Tensile strength (Grab test)	ASTM D5034	Warp (lbf) Weft (lbf)	240 223	— —
Elmendorf tear	ASTM D1424	Warp (lbf) Weft (lbf)	26 26	— —
Burst strength	ASTM D3786	PSI	—	139
Heat transfer performance (HTP)	NFPA 2112 Section 8.2	Spaced (cal/cm ²) Contact (cal/cm ²)	17 10	17 12
Dimensional stability after 5 cycles	AATCC 135	Machine (%) Cross (%)	<3 <3	— —

Typical physical properties (ISO, EN)

Property	Standard	Units/description	Nomex® Arc	Nomex® Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	ISO 3801	g/m ²	220	234
Tensile strength	ISO 13934-1	Warp (N) Weft (N)	1219 1075	— —
Tear strength	ISO 13937-2	Warp (N) Weft (N)	39 38	— —
Burst strength	ISO 13938-2	kPa	—	971
Dimensional stability after 5 cycles	ISO 5077	Machine (%) Cross (%)	<3 <3	<5 <5

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Nomex®

For more information on Nomex® Arc including pilling, colorfastness, and use and care, visit nomex.com/fabrics

 DuPont Personal Protection
 @DuPontPPE

All fabrics in our portfolio are suitable to be used for arc flash protection as per NEC, NESC, NFPA 70E and OSHA requirements.

Product safety information is available upon request. All data are from certification tests. Data can vary among testing labs.

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

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