Nomex® Xtreme Arc

Introducing the most innovative Nomex® offering for arc flash and FR protection. Nomex® Xtreme Arc provides an ATPV of 12 to 19 cal/cm², making it the ideal choice for workers confronted with high-risk electrical exposure in the industrial manufacturing and transportation industries.

Nomex® Xtreme Arc delivers high-performance single-layer comfortable electric arc 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.

Paris blue

Sunset blue

True gray

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.

**CGSB 155.20 certification pending.

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

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

Nomex® Xtreme Arc

Fabric protection performance

Property	Standard	Units/description	Nomex® Xtreme Arc	Nomex® Xtreme Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	—	oz/yd² (g/m²)	6.5 (220)	6.9 (234)
Arc Rating (Arc Thermal Performance Value [ATPV])	ASTM F1959 IEC 61482-1-1	cal/cm²	>12 (16-19)	>12 (14-17)
Energy Breakopen Threshold (EBT)	ASTM F1959 IEC 61482-1-1	cal/cm²	—	>12 (17)
Thermal manikin	NFPA 2112	TPBI (%)	9	9
Box test	IEC 61482-1-2	Rating	Class 1	—

Typical physical properties (ASTM, NFPA)

Property	Standard	Units/description	Nomex® Xtreme Arc	Nomex® Xtreme Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	ASTM D3776	oz/yd²	6.5	6.9
Tensile strength (Grab test)	ASTM D5034	Warp (lbf) Weft (lbf)	310 260	— —
Elmendorf tear	ASTM D1424	Warp (lbf) Weft (lbf)	28 27	— —
Burst strength	ASTM D3786	PSI	—	180
Heat transfer performance (HTP)	NFPA 2112 Section 8.2	Spaced (cal/cm²) Contact (cal/cm²)	18 13	17 14
Shrinkage after 5 home laundering cycles	AATCC 135	Machine (%) Cross (%)	<3 <3	— —

Typical physical properties (ISO, EN)

Property	Standard	Units/description	Nomex® Xtreme Arc	Nomex® Xtreme Arc
Fabric construction	—	—	Double-face weave	Double-face knit
Basis weight	ISO 3801	g/m²	220	234
Tensile strength	ISO 13934-1	Warp (N) Weft (N)	1411 1232	— —
Tear strength	ISO 13937-2	Warp (N) Weft (N)	57 62	— —
Burst strength	ISO 13938-2	kPa	—	982
Dimensional stability	ISO 5077	Machine (%) Cross (%)	<3 <3	<5 <5

DUPONT
Nomex®

For more information on Nomex® Xtreme 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.