

PARAMETERS	TEST METHOD, SOURCE	units	ChemArc 4	ChemArc 5	ChemArc 6	ChemArc 8	ChemArc 12
			(ChemStat 16)	(ChemStat 487)	(ChemStat 919)		(ChemStat 541)
			(HT016)	(HT487)	(HT464)	(HT544)	(HT541)
ARC FLASH							
ATPV arc value	ASTM F1959-99	cal/cm2	4.2	5.2	6.3	8.7	12.0
	IEC 61482-1 method A	kJ/m ²	175.8	209.5	263.8	393	502.5
	IEC 61482-1 method A	Class	1	1	1	2	2
HAF, Heat attenuation factor	ASTM F1959M-12	%	67.0	63.4	67.5	74.0	78.0
FLAMMABILITY							
Flame Retardance	NASA NHB 8060.1B	Class	(NA)	(NA)	1	1	(NA)
Initial flammability	ASTM F1506, D6413						
char length	ASTM D6413	inches	1.5	3.3	2.9	1.25	1.5
afterflame	ASTM D6413	seconds	0	0	0	0	0
afterglow	ASTM D6413	seconds	1	1.3	1.1	1.2	1.8
dripping	ASTM D6413	yes/no	no	no	no	no	no
ELECTROSTATICS							
Voltage decay, 90%	Fed Std 101C, Method 4046	seconds	>1.0	0.15	0.15	0.15	0.15
NASA voltage decay	NASA triboelectric	volts, 3.5 sec	(NA)	(NA)	250	(NA)	(NA)
NASA voltage decay	NASA triboelectric	volts, 5 sec	(NA)	(NA)	100	(NA)	(NA)
Surface resistivity	AATCC 76	ohm/sq	10 ¹²	10 ⁹	10 ⁹	10 ⁹	10 ⁹
TEXTILE PROPERTIES							
Weave construction			plain	plain	2/2 twill	plain	plain
Weight	ASTM D3776, option C	oz/yd ²	3.5	4.0	5.0	8.8	10.0
Yarn content by weight							
Nomex	ASTM D3776, option C	%	100	99	99	99	99
Carbon	ASTM D3776, option C	%	0	1	1	1	1
Tear strength, wxf	ASTM D2261	lb ^f	9.0 x 9.0	15 x 20	28 x 20	36 x 37	55 x 53
Air permeability	ASTM D737	cfm	30	15	9.7	20.2	9
OTHER PROPERTIES							
Laundry Compatibility							
DI water	50 launderings	visual	OK	OK	OK	OK	OK
perchlorethylene	50 launderings	visual	OK	OK	OK	OK	OK
Freon TF	50 launderings	visual	OK	OK	OK	OK	OK
Sterilization compatibility							
gamma radiation	50 launderings	Mrads	250	250	250	250	250
steam autoclave	50 launderings		safe	safe	safe	safe	safe
Optical Rating	ASTM E284	visual	opaque	opaque	opaque	opaque	opaque
Durability (15,000 cycles)	ASTM D4157	visual	no wear	no wear	no wear	no wear	no wear
Chemical compatibility							
salts and alkalis	DuPont bulletin		excellent	excellent	excellent	excellent	excellent
organic acids & chemicals	DuPont bulletin		excellent	excellent	excellent	excellent	excellent
jet fuel, hypergolic fuel	DuPont bulletin		excellent	excellent	excellent	excellent	excellent
mineral acids	DuPont bulletin		good	good	good	good	good