

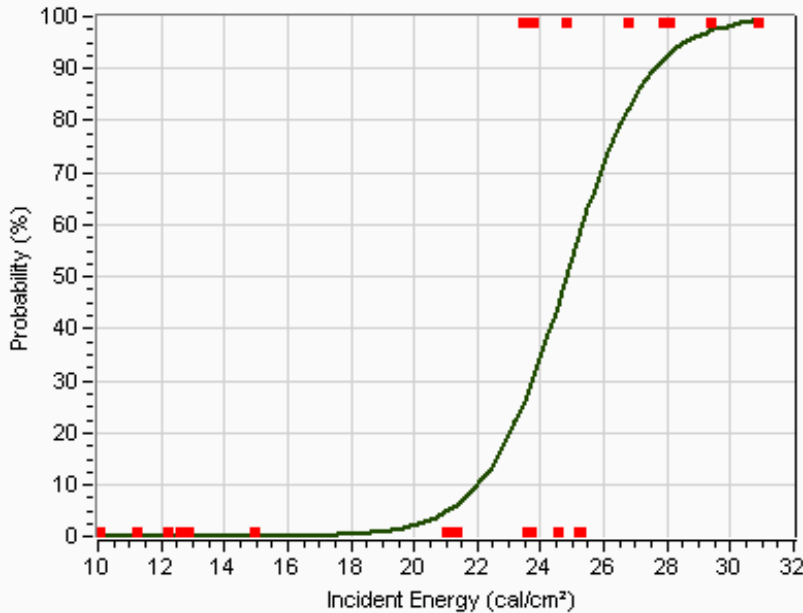
ASTM F1959/F1959M-06
Standard Test Method for Determining The Arc Rating Of Materials for Clothing



Client: Westex, Inc.
2845 W 48th Place
Chicago, IL 60632

Fabric: 7.4 oz/yd² Style 301 INDURA Ultra Soft, Khaki over
Description: 6.0 oz/yd² Style 341 INDURA Ultra Soft, Navy

Determination of ATPV, 50% Probability of 2nd Degree Burn

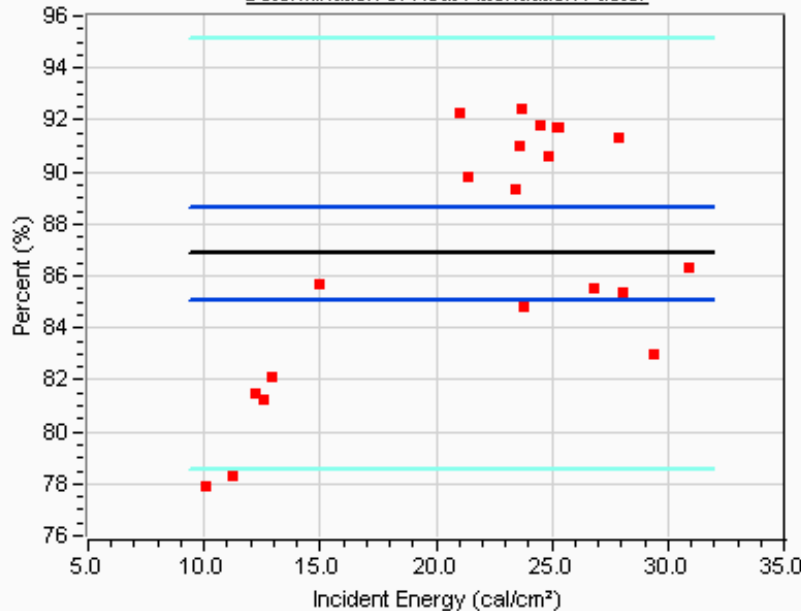


ATPV = 24.8 cal/cm²

Probability of Burn	Ei
5%	21.1
10%	22.0
20%	23.0
30%	23.7
40%	24.3
50%	24.8
60%	25.3
70%	25.9
80%	26.6
90%	27.6





Pts = 21
Pts above Stoll = 8
Pts Break-Open = 1
Pts always >STOLL = 5
Pts always <STOLL = 8
Pts within 20% = 14
Pts in mix zone = 8

Determination of Heat Attenuation Factor



HAF = 86.8 %

Confidence Intervals
95% CI = 85.0 , 88.6

Data pts 
Best Fit 
95% CI 
95% CI pts 

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Fabric Description: 7.4 oz/yd² Style 301 INDURA Ultra Soft, Khaki over
 6.0 oz/yd² Style 341 INDURA Ultra Soft, Navy

Test #	Panel	Cycles # (60Hz)	Ei cal/cm ²	SCD cal/cm ²	HAF %	Burn yes/no	Break Open Y/N	After Flame sec.	Omit Y/N	Comment	Ignition T-shirt	
1	09-628	A	16.1	12.23	-0.19	81.5	No	-	-	No	Both layers intact	
2	09-628	B	16.1	12.59	-0.14	81.2	No	-	-	No	"	
3	09-628	C	16.1	14.98	-0.30	85.7	No	-	-	No	"	
4	09-629	A	14.1	11.25	-0.05	78.3	No	-	-	No	"	
5	09-629	B	14.1	10.09	-0.42	77.9	No	-	-	No	"	
6	09-629	C	14.1	12.88	-0.24	82.1	No	-	-	No	"	
7	09-630	A	29.1	21.04	-0.58	92.3	No	-	-	No	Outer FR layer ablation	
8	09-630	B	29.1	24.85	0.00	90.6	Yes	-	-	No	"	
9	09-630	C	29.1	21.38	-0.08	89.8	No	-	-	No	"	
10	09-631	A	31.1	23.61	-0.18	91.0	No	-	-	No	"	
11	09-631	B	31.1	25.26	-0.16	91.7	No	-	-	No	"	
12	09-631	C	31.1	23.79	1.39	84.8	Yes	-	-	No	"	
13	09-632	A	33.1	23.43	0.15	89.3	Yes	-	-	No	"	
14	09-632	B	33.1	23.73	-0.38	92.4	No	-	-	No	"	
15	09-632	C	33.1	25.20	-0.23	91.7	No	-	-	No	"	
16	09-633	A	36.1	30.92	2.26	86.3	Yes	-	-	No	"	
17	09-633	B	36.1	27.87	0.09	91.3	Yes	-	-	No	"	
18	09-633	C	36.1	24.54	-0.22	91.8	No	-	-	No	"	
19	09-634	A	37.1	26.81	1.84	85.5	Yes	-	-	No	"	
20	09-634	B	37.1	29.37	2.89	83.0	Yes	-	-	No	"	
21	09-634	C	37.1	28.07	2.22	85.4	Yes	Y	-	No	B/O of Inner FR Layer	
22												
23												
24												
25												
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