TEST REPORT

2022EP0486

DATE OF RECEPTION
31/03/2022

DATE TESTS
Starting: 31/03/2022
Ending: 04/05/2022

APPLICANT

SARENA TEXTILE INDUSTRIES PVT LTD
21- Waris Road
PK-54000
Lahore

Att. Samra Sharif

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES
ROCK

TESTS CARRIED OUT

- SAMPLE IDENTIFICATION.
- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING.
- HEAT TRANSFER EVALUATION OF FLAME RESISTANT MATERIALS.
- FLAME RESISTANCE OF TEXTILES (VERTICAL TEST).
- HEAT RESISTANCE.
- MASS PER UNIT AREA.
- PROTECTIVE CLOTHING AGAINST HEAT AND FLAME – TEST METHOD FOR COMPLETE GARMENTS – PREDICTION FOR BURN INJURY USING AN INSTRUMENTED MANIKIN.

Tests marked with * are not included within the scope of the ENAC accreditation.

RESULTS

SAMPLE IDENTIFICATION

Reference
ROCK

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SAMPLE DESCRIPTION

REFERENCE:

ROCK

SAMPLE TYPE:

Coverall

BODY PARTS COVERED BY THE GARMENT:

Torso, neck, and the upper and lower extremities, apart from the hands and feet.

SIZE:

42

GARMENT LAYERS

Layer 1	Navy woven fabric, style rock, 93% m-aramid; 5% p-aramid and 2% Antistatic, 150 g/m^2, according to the information supplied by the customer.

PARTS OF THE GARMENT

Collar	Double fabric layer 1.
Front	Four pieces of fabric layer 1.
Back	Three pieces of fabric layer 1.
Sleeves	Long sleeves.
Closure system	Metal Zipper
Collar closure system	No.
Cuff closure system	Hem stitched inwards.
Reflective trim	No.
Pockets	No.
Belt loops	No.
Legs	Longs.
Waistband adjustment system	No.
Bottom	Hem stitched inwards.
Others	---

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RESULTADOS / *RESULTS*

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard
NFPA 2112:2018 point 8.1.3

Standard deviation

Reference
Sample 1 ROCK

Equipment
Pilllerin Milnor Washing Machine 13197I12

Washing procedure
Normal

Washing cycles
1

Drying procedure
Tumble dryer

Washing powder
Tergitol 15-S-9 13157N12 + Sodium Metasilicate 13158N12 + Sodium Tripolyphosphate 13206N12 + Sodium Silicofluoride 13245N12

Dry mass of the samples	Counterweight mass	Equipment
1,930 Kg	7,000 Kg	Lavadora Pellerin Milnor 13197I12

Start and finish date test
11/04/2022 - 11/04/2022

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RESULTADOS / *RESULTS*

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard
NFPA 2112:2018 point 8.1.3

Standard deviation

Reference
Sample 1 ROCK

Equipment
Pilllerin Milnor Washing Machine 13197I12

Washing procedure
Normal

Washing cycles
3

Drying procedure
Tumble dryer

Washing powder
Tergitol 15-S-9 13157N12 + Sodium Metasilicate 13158N12 + Sodium Tripolyphosphate 13206N12 + Sodium Silicofluoride 13245N12

Dry mass of the samples	Counterweight mass	Equipment
0,160 Kg	8,800 Kg	Lavadora Pellerin Milnor 13197I12

Start and finish date test
05/04/2022 - 05/04/2022

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RESULTS

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard
NFPA 2112:2018 point 8.1.3

Standard deviation

Reference
Sample 1 ROCK

Equipment
Pilllerin Milnor Washing Machine 13197I12

Washing procedure
Normal

Washing cycles
100

Drying procedure
Tumble dryer

Washing powder
Tergitol 15-S-9 13157N12 + Sodium Metasilicate 13158N12 + Sodium Tripolyphosphate 13206N12 + Sodium Silicofluoride 13245N12

Dry mass of the samples	Counterweight mass	Equipment
0,090 Kg	8,90 Kg	Lavadora Pellerin Milnor 13197I12

Start and finish date test
05/04/2022 - 26/04/2022

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RESULTS

RESULTS

Reference
ROCK

Position of the sensor to the specimen
Contact

Specimen	HTP (J/cm^2)	TPP (cal/cm^2)
1	27,68	6,61
2	26,05	6,22
3	25,96	6,20
Average	**26,56**	**6,34**

Visual examination and evaluation

Property	1	2	3
Melting	No.	No.	No.
Dripping	No.	No.	No.
Break open	No.	No.	No.
Charring	Slight, discoloration.	Slight, discoloration.	Slight, discoloration.
Embrittlement	Slight, starts to harden.	Slight, starts to harden.	Slight, starts to harden.
Ignition	Slight, slight smoke.	Slight, slight smoke.	Slight, slight smoke.
Shrinkage	No.	No.	No.
Sticking	No.	No.	No.

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RESULTS

Reference

ROCK

Position of the sensor to the specimen

Spaced

Specimen	HTP (J/cm²)	TPP (cal/cm²)
1	46,52	11,11
2	47,22	11,33
3	47,13	11,26
Average	**46,96**	**11,23**

Visual examination and evaluation

Property	1	2	3
Melting	No.	No.	No.
Dripping	No.	No.	No.
Break open	No.	No.	No.
Charring	Slight, evident charring.	Slight, evident charring.	Slight, evident charring.
Embrittlement	Moderate, small hardened areas.	Moderate, small hardened areas.	Moderate, small hardened areas.
Ignition	Moderate, dark smoke.	Moderate, dark smoke.	Moderate, dark smoke.
Shrinkage	No.	No.	No.
Sticking	No.	No.	No.

Remark

The uncertainty of the assay of Thermal Protective Performance is ±8,3% of the value measured, for a coverage factor of K=2 [95%].

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RESULTS

PERFORMANCE LEVEL ACCORDING TO NFPA 2112:2018	PASS

Requirements to be met according to NFPA 2112:2018 sec.7.1.1

The spaced HTP rating shall be not less than 25 J/cm^2 (6,0 cal/cm^2) and a contact HTP rating shall not be less than 12.6 J/cm^2 (3,0 cal/cm^2)

Remark

These results have been obtained by means of a test method intended solely to classify the set of materials and materials not necessarily applicable to the actual conditions of fire or inflammation.

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RESULTS

HEAT TRANSFER EVALUATION OF FLAME RESISTANT MATERIALS

Standard
ASTM F2700-08(2013) modified by NFPA 2112:2018 sec.8.2

Apparatus
Thermal Protective Performance Tester 403-05

Testing date
04/05/2022

Conditioned
24h in indoor ambient conditions at (21 ± 2) ºC and (65 ± 5) % RH

Sample layers
1

Sample description
Navy blue woven fabric

Pre-Treatment
3 washing cycles at 66ºC, according to NFPA 2112:2018 point 8.1.3, and tumble drying at 68ºC.

Radiant incident heat flux
10,08 kW/m^2

Total incident heat flux
82,82 kW/m^2

Specimen mounting
Relaxed

Weight of material as tested
149 g/m^2

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RESULTS

Reference

ROCK

Position of the sensor to the specimen

Contact

Specimen	HTP (J/cm²)	TPP (cal/cm²)
1	27,84	6,65
2	27,04	6,46
3	27,13	6,48
Average	**27,34**	**6,53**

Visual examination and evaluation

Property	1	2	3
Melting	No.	No.	No.
Dripping	No.	No.	No.
Break open	No.	No.	No.
Charring	Slight, discoloration.	Slight, discoloration.	Slight, discoloration.
Embrittlement	Slight, starts to harden.	Slight, starts to harden.	Slight, starts to harden.
Ignition	Slight, slight smoke.	Slight, slight smoke.	Slight, slight smoke.
Shrinkage	No.	No.	No.
Sticking	No.	No.	No.

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RESULTS

Reference

ROCK

Position of the sensor to the specimen

Spaced

Specimen	HTP (J/cm²)	TPP (cal/cm²)
1	44,84	10,71
2	44,65	10,66
3	47,17	11,27
Average	**45,55**	**10,88**

Visual examination and evaluation

Property	1	2	3
Melting	No.	No.	No.
Dripping	No.	No.	No.
Break open	No.	No.	No.
Charring	Slight, evident charring.	Slight, evident charring.	Slight, evident charring.
Embrittlement	Moderate, small hardened areas.	Moderate, small hardened areas.	Moderate, small hardened areas.
Ignition	Moderate, dark smoke.	Moderate, dark smoke.	Moderate, dark smoke.
Shrinkage	No.	No.	No.
Sticking	No.	No.	No.

Remark

The uncertainty of the assay of Thermal Protective Performance is ±8,3% of the value measured, for a coverage factor of K=2 [95%].

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RESULTS

PERFORMANCE LEVEL ACCORDING TO NFPA 2112:2018	PASS

Requirements to be met according to NFPA 2112:2018 sec.7.1.1

The spaced HTP rating shall be not less than 25 J/cm^2 (6,0 cal/cm^2) and a contact HTP rating shall not be less than 12.6 J/cm^2 (3,0 cal/cm^2)

Remark

These results have been obtained by means of a test method intended solely to classify the set of materials and materials not necessarily applicable to the actual conditions of fire or inflammation.

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RESULTS

FLAME RESISTANCE OF TEXTILES (VERTICAL TEST)

Standard
ASTM D6413 / D6413M:15 modified by NFPA 2112:2018 sec.8.3

Apparatus
Test cabinet for vertical flammability

Original and after pre-treatment test date
11/04/2022 - 04/05/2022

Conditioned
24h in indoor ambient conditions at (21 ± 3) ºC and (65 ± 5) % RH

Original and after pre-treatment ambient conditions test
20,4ºC and 48,0% RH - 21,4ºC and 55,6% RH

Face exposed to the flame
Edge: Outer

Tested material
Navy blue woven fabric.

Sample size
75 mm x 305 mm

Flame contact time
12 s

Deviation from the standard

Reference
ROCK

_____>>>

RESULTS

Pre-Treatment As received

Orientation of the specimen
Warp

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length (mm)
1	0	21,4	No	57,6
2	0	38,6	No	60,8
3	0	18,6	No	60,8
4	0	17,0	No	57,6
5	0	18,6	No	64,0
Average	**0**	**22,8**	**No**	**60,8**

Orientation of the specimen
Weft

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length (mm)
1	0	11,0	No	60,8
2	0	13,8	No	57,6
3	0	15,6	No	57,6
4	0	18,2	No	57,6
5	0	12,4	No	54,4
Average	**0**	**14,2**	**No**	**57,6**

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RESULTS

Pre-Treatment 100 washing cycles at 66ºC, according to NFPA 2112:2018 point 8.1.3, and tumble drying at 68ºC.

Orientation of the specimen

Warp

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length (mm)
1	0	44,2	No	57,6
2	0	19,4	No	54,4
3	0	17,4	No	64,0
4	0	29,2	No	54,4
5	0	18,6	No	57,6
Average	**0**	**25,8**	**No**	**57,6**

Orientation of the specimen

Weft

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length (mm)
1	0,0	15,6	No	51,2
2	0	16,6	No	60,8
3	0	19,4	No	54,4
4	0	24,6	No	60,8
5	0	14,6	No	48,0
Average	**0**	**18,2**	**No**	**54,4**

Remark

The uncertainty of the assay of flame resistance of textiles (vertical test) is ±2% of the value measured, for a coverage factor of K=2 (95%).

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RESULTS

REMARK

Time values of each sample, are recorded to the nearest 0,2 s. Char length values are calculated to the nearest 3,2 mm

PERFORMANCE LEVEL ACCORDING TO NFPA 2112:2018	PASS

Requirements to be met according to NFPA 2112:2018

a) No specimen shall give flaming or molten debris
b) The mean value of after flame time shall be ≤ 2 s
c) The mean value of char length shall be ≤ 100 mm

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RESULTS

HEAT RESISTANCE

Standard
ASTM_F2894:2014 modified according to NFPA 2112:2018 sec.8.4

Apparatus
Air stove

Temperature
(260 +6/-0) ºC

Length of the test
5 min (+0,15/-0) min

Deviation from the Standard

Pre-Treatment
As received.

Tested material
Navy blue woven fabric.

Reference
ROCK

_____>>>

RESULTS

Fabric					
Flame	**Melting**	**Dripping**	**Separation**	**Direction**	**Shrink (-) Elongation (+)**
No	No	No	No	Warp Weft	-0,5 % -0,7 %
No	No	No	No	Warp Weft	-0,7 % -0,8 %
No	No	No	No	Warp Weft	-0,8 % -0,8 %
			Average	**Warp %** **Weft %**	**-0,7 %** **-0,8 %**

Remark

The uncertainty of the assay of Heat Resistance is ±8% of the value measured, for a coverage factor of K=2 (95%).

PERFORMANCE LEVEL ACCORDING TO NFPA 2112:2018	**PASS**

Requirements to meet according to NFPA 2112:2018

a) No layer can ignite.
b) No layer can melt or drip.
c) No layer can separate.
d) Any layer shrink more than 10%.

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RESULTS

HEAT RESISTANCE

Standard
ASTM_F2894:2014 modified according to NFPA 2112:2018 sec.8.4

Apparatus
Air stove

Temperature
(260 +6/-0) ºC

Length of the test
5 min (+0,15/-0) min

Deviation from the Standard

Pre-Treatment
3 washing cycles at 66ºC, according to NFPA 2112:2018 point 8.1.3, and tumble drying at 68ºC.

Tested material
Navy blue woven fabric.

Reference
ROCK

_____>>>

RESULTS

Fabric					
Flame	**Melting**	**Dripping**	**Separation**	**Direction**	**Shrink (-) Elongation (+)**
No	No	No	No	Warp Weft	-0,8 % -0,8 %
No	No	No	No	Warp Weft	-0,8 % -0,8 %
No	No	No	No	Warp Weft	-0,7 % -0,7 %
			Average	**Warp % Weft %**	**-0,8 % -0,8 %**

Remark

The uncertainty of the assay of Heat Resistance is ±8% of the value measured, for a coverage factor of K=2 (95%).

PERFORMANCE LEVEL ACCORDING TO NFPA 2112:2018	**PASS**

Requirements to meet according to NFPA 2112:2018

a) No layer can ignite.
b) No layer can melt or drip.
c) No layer can separate.
d) Any layer shrink more than 10%.

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RESULTS

MASS PER UNIT AREA

Standard
ASTM D3776/3776M-20 (R2020) Option C

Conditioning date 04/04/2022 **Test date** 05/04/2022

Atmosphere for conditioning testing
Temperature (21±1) ºC **Relative humidity** (65±2) %

Type of fabric
Woven fabric

State of the specimens
Original

Number of specimens
1

Dimensions of specimens
500 cm^2

Previous treatment
Null

Reference
ROCK

Mass per unit area (oz/yd^2)	Mass per unit area (g/m^2)
4,43	150

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RESULTS

PROTECTIVE CLOTHING AGAINST HEAT AND FLAME – TEST METHOD FOR COMPLETE GARMENTS – PREDICTION FOR BURN INJURY USING AN INSTRUMENTED MANIKIN

THERMO TEX TEST

Standard
ASTM F1930:2015 (Obsolete)

Test type
Materials of garment construction evaluation

Testing date
02/05/2022

Reference
ROCK

Underwear and accessories

Shirt underwear	Short sleeves shirt 100% cotton, 140 g/m²
Trousers underwear	Briefs 100% cotton, 170g/m²

Holes and/or cuts
Top back of the T-shirt undergarment

Apparatus
Instrumented Manikin

Test uncertainty
± 7% of the measurand's value, for a coverage value of K=2 (95%)

Conditioning
24h, in indoor ambient conditions at 21 ± 2 ºC and 65 ± 5 %HR

Pre-treatment
1 washing cycle at 66ºC according to standard NFPA 2112:2018 parag. 8.1.3 and tumble drying at 68ºC

Pre-treatment starting date
11/04/2022

Pre-treatment ending date
11/04/2022

Observation or deviation of the standard
The edition of the standard used does not correspond to the latest version released.

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RESULTS

Exposure conditions:

Total number of burners: 12 in two tiers of six surrounding the manikin. The lower set of six burners are pointed at the legs and lower body of the manikin whilst the upper set of six burners are pointed at the upper body and head

Nominal exposure heat flux density level

84 **kW / m² ± 5%**

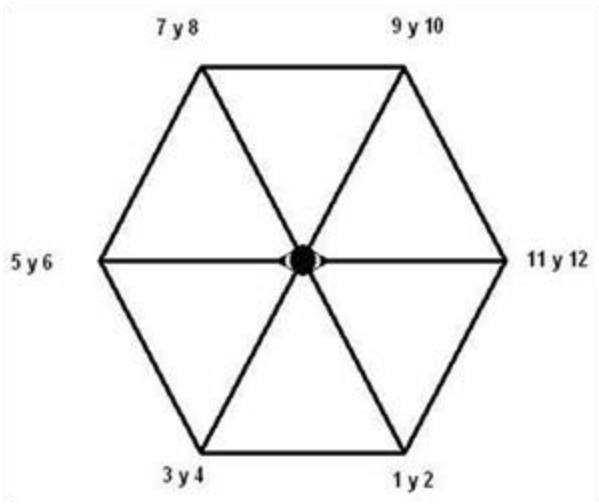
Duration of the exposure 3 s

Duration of the data acquisition 60 s

Level of the exposure	Before the test	After the test	
Average of heat flux density	85.17	84.56	kW/m²
Standard deviation of the average of heat flux density	16.3	15.2	-

Distribution of burners surrounding the mannequin:

Number of burners: 12



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RESULTS

Sample nº 1 Ref.- ROCK

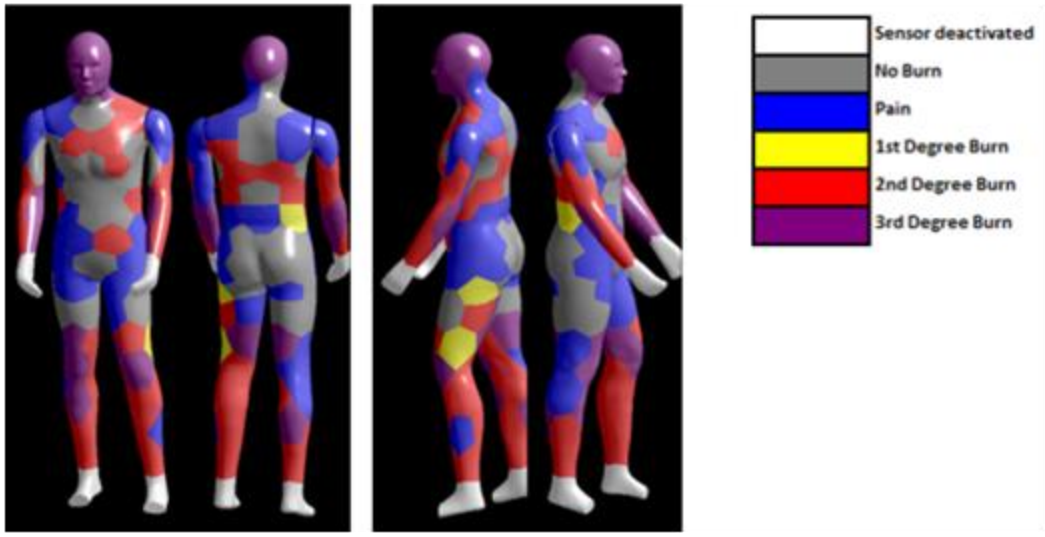
Duration of the exposure	3s
Duration of the data acquisition	120 s.
Temperature of the exposure chamber before the test	27.9 ºC

Total Surface Area	1,80 m²
Total Clothed Surface Area	1,68 m²
Total transferred energy	237,80 kJ

Predicted total burn injury of the manikin

For this test, therefore, hands and feet are not included in the calculations.

First-degree burn injury area (%)	2nd degree burn injury area (%)	3rd-degree burn injury area (%)	Predicted total area of burn injury (2nd and 3rd degree) (%)
2,4	28,2	19,3	47,5



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RESULTS

Sample nº 1 Ref.- ROCK

Property	Measurement	Sample 1	Remark
Afterflame time	Video	1,0 s.	---
Hole formation	Visual	No	---
Melting	Visual	No	---
Embrittlement	Visual	No	---
Smoke	Visual	Yes	---
Dripping	Visual	No	---
Shrinkage	Visual	Yes	---
Functioning of garment accessories	Visual	Correct	---

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RESULTS

Sample nº 1 Ref.- ROCK

Burns

Sensor/temp	Clothed 1st Deg Burn Area (%)	Clothed 2nd Deg Burn Area (%)	Clothed 3rd Deg Burn Area (%)
Arms	0,0	32,5	29,3
Shanks	0,0	65,2	21,1
Thighs	8,8	10,8	18,0
Trunk	1,9	21,7	0,0
WHOLE MANIKIN	**2,6**	**30,2**	**13,5**

Remark

These percentages are for the total area of the manikin covered by the test specimen

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RESULTS

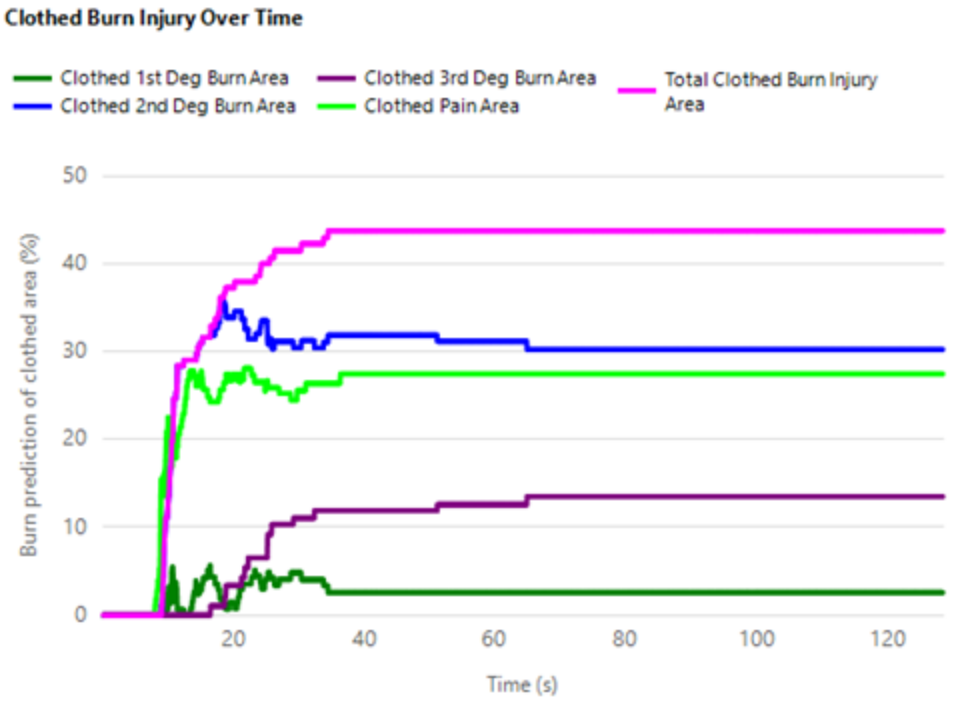
Sample before test nº 1 Ref.- ROCK

PHOTOS

_____>>>

RESULTS

Sample nº 1 Ref.- ROCK



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RESULTS

Sample after test nº 1 Ref.- ROCK

PHOTOS

_____>>>

RESULTS

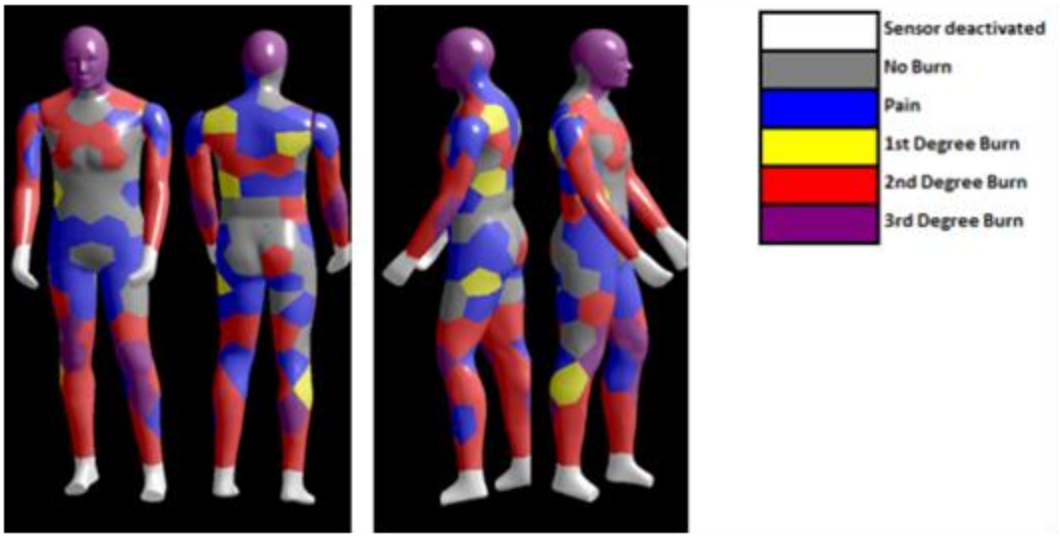
Sample nº 2 Ref.- ROCK

Duration of the exposure	3 s.
Duration of the data acquisition	120 s.
Temperature of the exposure chamber before the test	26,0 ºC
Total Surface Area	1,80 m²
Total Clothed Surface Area	1,68 m²
Total transferred energy	244,06 kJ

Predicted burn injury on the total area of the manikin covered by the test specimen

For this test, therefore, hands and feet are not included in the calculations.

First-degree burn injury area (%)	2nd degree burn injury area (%)	3rd-degree burn injury area (%)	Predicted total area of burn injury (2nd and 3rd degree) (%)
4,5	34,9	14,0	48,9



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RESULTS

Sample nº 2 Ref.- ROCK

Property	Measurement	Sample 2	Remark
Afterflame time	Video	1,1 s.	---
Hole formation	Visual	No	---
Melting	Visual	No	---
Embrittlement	Visual	No	---
Smoke	Visual	Yes	---
Dripping	Visual	No	---
Shrinkage	Visual	Yes	---
Functioning of garment accessories	Visual	Correct	---

>>>

RESULTS

Sample nº 2 Ref.- ROCK

Burns

Sensor/temp	Clothed 1st Deg Burn Area (%)	Clothed 2nd Deg Burn Area (%)	Clothed 3rd Deg Burn Area (%)
Arms	0,0	64,6	12,1
Shanks	5,6	55,9	20,9
Thighs	3,7	28,8	6,6
Trunk	7,3	19,9	0,0
WHOLE MANIKIN	**4,9**	**37,4**	**7,8**

Remark

These percentages are for the total area of the manikin covered by the test specimen

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RESULTS

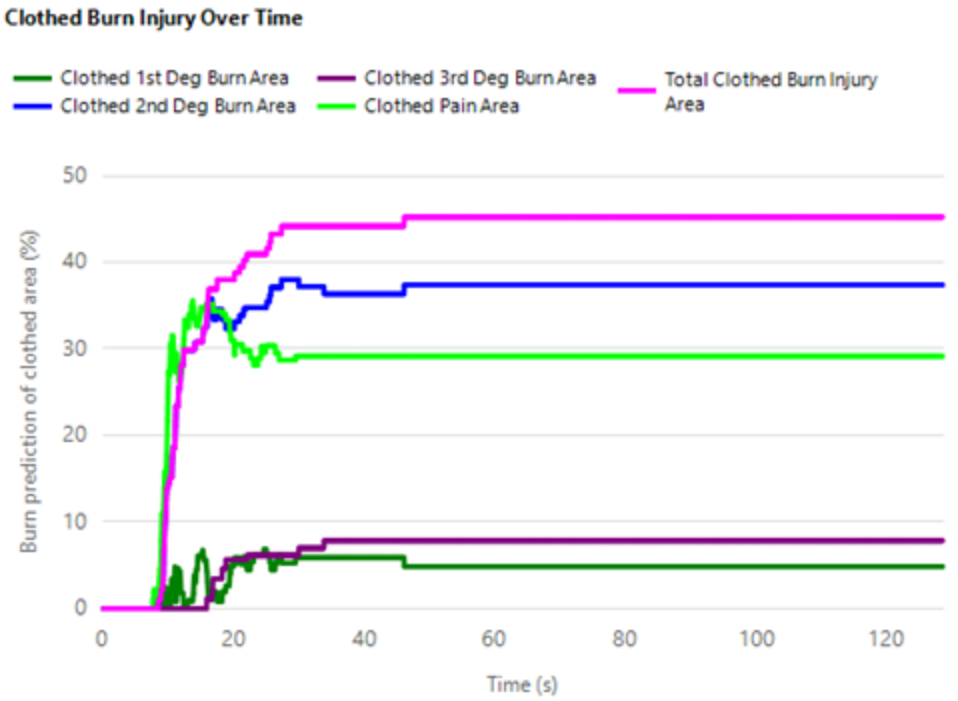
Sample before test nº 2 Ref.- ROCK

PHOTOS

_____>>>

RESULTS

Sample nº 2 Ref.- ROCK



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RESULTS

Sample after test nº 2 Ref.- ROCK

PHOTOS

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RESULTS

Sample nº 3 Ref.- ROCK

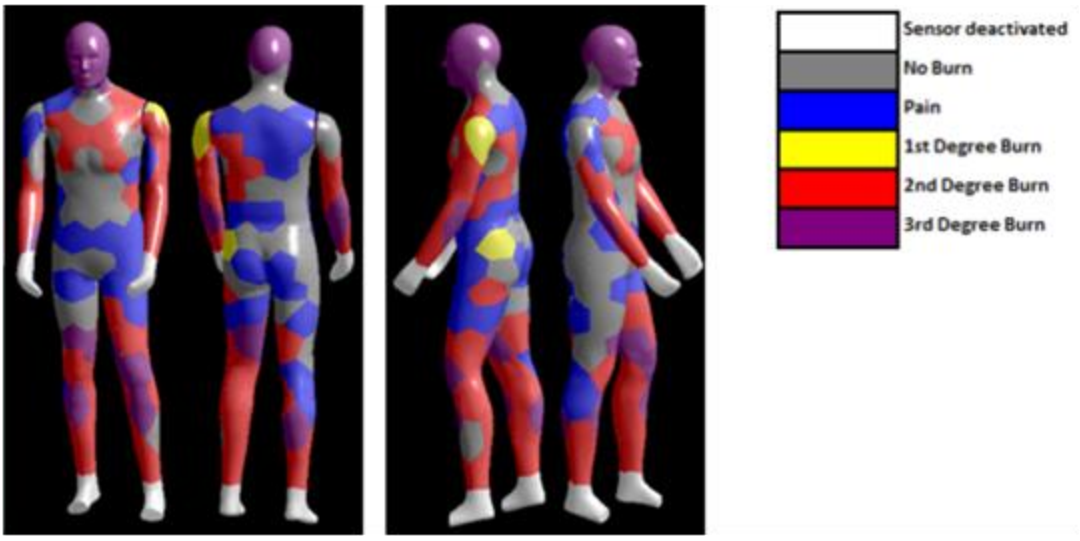
Duration of the exposure	3
Duration of the data acquisition	120 s.
Temperature of the exposure chamber before the test	27.0 ºC

Total Surface Area	1,80 m²
Total Clothed Surface Area	1,68 m²
Total transferred energy	238,90 kJ

Predicted total burn injury of the manikin

For this test, therefore, hands and feet are not included in the calculations.

First-degree burn injury area (%)	2nd degree burn injury area (%)	3rd-degree burn injury area (%)	Predicted total area of burn injury (2nd and 3rd degree) (%)
2,0	33,4	16,2	49,7



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RESULTS

Sample nº 3 Ref.- ROCK

Property	Measurement	Sample 3	Remark
Afterflame time	Video	1,1 s.	---
Hole formation	Visual	No	---
Melting	Visual	No	---
Embrittlement	Visual	No	---
Smoke	Visual	Yes	---
Dripping	Visual	No	---
Shrinkage	Visual	Yes	---
Functioning of garment accessories	Visual	Correct	---

>>>

RESULTS

Sample nº 3 Ref.- ROCK

Burns

Sensor/temp	Clothed 1st Deg Burn Area (%)	Clothed 2nd Deg Burn Area (%)	Clothed 3rd Deg Burn Area (%)
Arms	7,1	56,2	15,8
Shanks	0,0	66,3	20,0
Thighs	0,0	24,3	15,6
Trunk	2,0	17,1	0,0
WHOLE MANIKIN	**2,2**	**35,8**	**10,2**

Remark

These percentages are for the total area of the manikin covered by the test specimen

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RESULTS

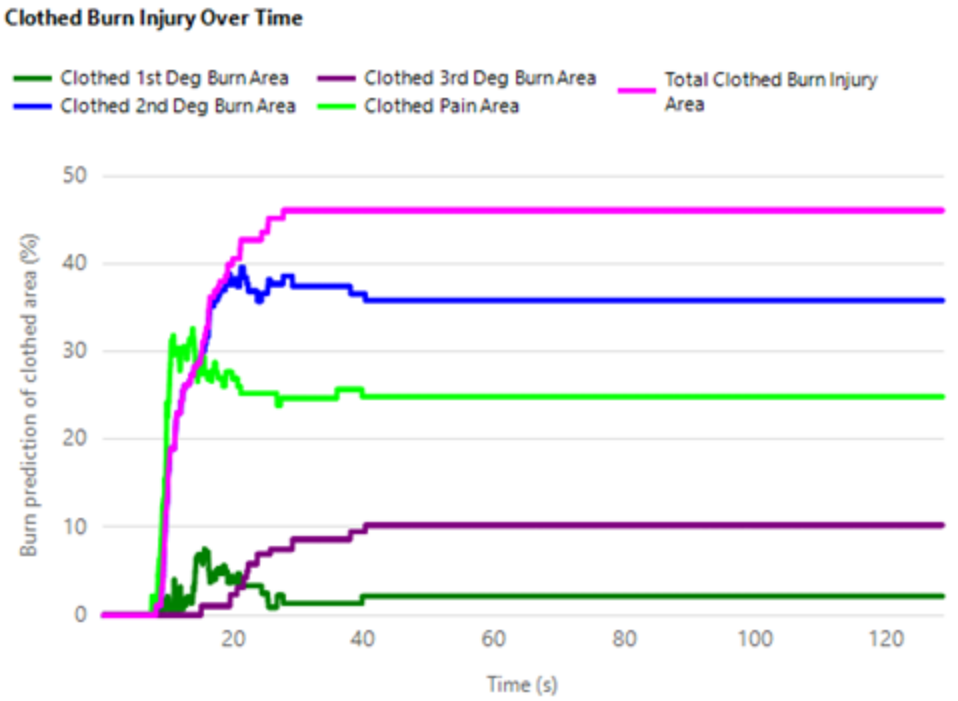
Sample before test nº 3 Ref.- ROCK

PHOTOS

_____>>>

RESULTS

Sample nº 3 Ref.- ROCK



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RESULTS

Sample after test nº 3 Ref.- ROCK

PHOTOS

_____>>>

RESULTS

Sample Ref.- ROCK

Predicted burn injury on the total area of the manikin covered by the test specimen

Exposure	2nd degree burn injury area	3rd-degree burn injury area	Predicted total area of burn injury (2nd and 3rd degree)	Average	Standard deviation
1	30,2	13,5	43,7		
2	37,4	7,8	45,2	45,0	1,2
3	35,8	10,2	46,1		

Predicted burn injury on the total area of the manikin, except hands and feet.

Exposure	2nd degree burn injury area	3rd-degree burn injury area	Predicted total area of burn injury (2nd and 3rd degree)	Average	Standard deviation
1	28,2	19,3	47,5		
2	34,9	14,0	48,9	48,7	1,1
3	33,4	16,2	49,7		

Evaluation of the protective garments was based on the performance requirements of **section 7.1.5** of **NFPA 2112-2018,** Standard on Flame Resistant Garments for Protection of Industrial Personnel Against Flash Fire, which states:

"Specimen garments shall be tested for overall flash fire exposure as specified in **section 8.5,** Manikin Test, as a qualification test for the material and shall have a body burn rating of not more than 50 %."

For test results in this report, this performance requirement is interpreted as: The percentage of the total mannequin surface reaching the 2nd and 3rd degree burn criteria shall not exceed 50%.

PERFORMANCE LEVEL ACCORDING TO NFPA 2112-18	**PASS**

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Lucia Martinez
Head of PPE and Ballistics department

Digitally signed by ISABEL LLOPIS LUMBRERAS - NIF:21678551Q
Date: 2022.05.06 09:10:15 +02:00
Reason: Autorizado
Location: Alcoy

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