

PBI PAC I

PAC I HOOD DESIGN SPECIFICATIONS

PART #	PBI PAC I
DESIGN	
HEAD with SHOULDER INSERTS	One piece, traditional head design with shoulder inserts (shoulder protection)
BIB (APRON)	n/a
LAYERS	
HEAD with SHOULDER INSERTS	PBI Lenzing LIGHT BROWN (2 ply)
BIB (APRON)	n/a
LENGTH	
HEAD with SHOULDER INSERTS	19"
BIB (APRON)	n/a
OVERALL	19"
SIZING	
	UNIVERSAL size

HOOD OPENING DESIGN (aka FACE OPENING)	
	Circular FACE OPENING (HOOD OPENING)
	Sewn with 1/2" elastic. Elastic is encapsulated in material and cover stitched.

HOOD OPENING SIZE RETENTION TEST (aka HOOD FACE OPENING SIZE RETENTION TEST)	
REQUIREMENT HOOD FACE OPENING SHALL BE ABLE TO BE STRETCHED TO A CIRCUMFERENCE OF AT LEAST 31" (800mm)	
REQUIREMENT HOOD FACE OPENING SHALL SLIDE FREELY OVER TOP PORTION (hood measuring device)	
REQUIREMENT HOOD FACE OPENING SHALL NOT SHOW ANY GAPS WHEN ON BOTTOM PORTION (hood measuring device)	

HOOD FACE OPENING	
	stretched to a circumference of at least 31" YES
HOOD FACE OPENING	
	slides freely over top portion (of hood measuring device)
	before stretching YES
	after stretching 50 times YES
HOOD FACE OPENING	
	gaps when on bottom portion (of hood measuring device)
	before stretching NO
	after stretching 50 times NO

BINDING	
	Binding of same material to enhance design with a finished look

THREAD	
	WHITE Nomex Thread

THREAD MELTING TEST (aka THREAD MELTING RESISTANCE)	
REQUIREMENT THREAD MUST NOT MELT BELOW 260°C (500° F)	
	COMPLIES

SEAMS	
	Head design with traditional central head seam (comfortable central seam)
	Safety lock cover-stitch of seams.

SEAM BREAKING STRENGTH TEST	
REQUIREMENT NOT LESS THAN 181 N (41 lbf)	
after 5 launderings	573 N

CERTIFICATIONS and COMPLIANCE	
NFPA 1971-2018 UL Certified	
Compliant with CAL-OSHA, Sections 3406(d) and 3410(d)	
Complies with OSHA Rule 29 CFR Part 1910, 269	
Passes Federal Test 191, Method 5903.2	
NFPA 70E - see comments under ARC THERMAL PERFORMANCE VALUE section is applicable	

PBI FABRIC PERFORMANCE VALUES

FABRIC CONSTRUCTION		
CONTENT		20% PBI / 80% Lenzing FR
CONSTRUCTION		1 x 1 Rib Knit
WEIGHT		6.5 oz / yd ² (+1 / -5)
COLOR		LIGHT BROWN (standard)

THERMAL PROTECTIVE PERFORMANCE (TPP)		
REQUIREMENT NOT LESS THAN 20		
	as received (2 ply)	23.2 cal/cm ²
	after 5 launderings (2 ply)	23.4 cal/cm ²

BURST STRENGTH (KNIT MATERIALS)		
REQUIREMENT NOT LESS THAN 225 N (51 lbf)		
		300 N

FLAME RESISTANCE TEST 1		
REQUIREMENT SHALL NOT HAVE AFTERFLAME OF MORE THAN 2 SECONDS		
REQUIREMENT SHALL NOT HAVE CHAR LENGTH OF MORE THAN 100mm (4 in)		
REQUIREMENT SHALL NOT MELT OR DRIP		

AFTER FLAME	as received	0 seconds
	after 5 launderings	0 seconds
CHAR LENGTH (wales x courses)	as received	37 mm x 39 mm
	after 5 launderings	42 mm x 43 mm
MELT or DRIP	as received	NONE
	after 5 launderings	NONE

CLEANING SHRINKAGE RESISTANCE TEST		
REQUIREMENT HOOD MEASUREMENT SHALL NOT SHRINK MORE THAN 5%		
REQUIREMENT HOOD FACE OPENING SHALL SLIDE FREELY OVER TOP PORTION (hood measuring device)		
REQUIREMENT HOOD FACE OPENING SHALL NOT SHOW ANY GAPS WHEN ON BOTTOM PORTION (hood measuring device)		

HOOD MEASUREMENT	after 5 launderings	less than 1%
HOOD FACE OPENING		
	slides freely over top portion (of hood measuring device)	
	as received	COMPLIES
	after 5 launderings	COMPLIES
HOOD FACE OPENING		
	gaps when on bottom portion (of hood measuring device)	
	as received	COMPLIES (NO GAPS)
	after 5 launderings	COMPLIES (NO GAPS)

HEAT AND THERMAL SHRINKAGE RESISTANCE TEST		
REQUIREMENT HOOD MEASUREMENT SHALL NOT SHRINK MORE THAN 10%		
REQUIREMENT HOOD FACE OPENING SHALL SLIDE FREELY OVER TOP PORTION (hood measuring device)		
REQUIREMENT HOOD FACE OPENING SHALL NOT SHOW ANY GAPS WHEN ON BOTTOM PORTION (hood measuring device)		
REQUIREMENT SHALL NOT MELT, DRIP, SEPARATE, OR IGNITE		

HOOD MEASUREMENT	as received	less than 1%
	after 5 launderings	less than 1%
HOOD FACE OPENING		
	slides freely over top portion (of hood measuring device)	
	as received	COMPLIES
	after 5 launderings	COMPLIES
HOOD FACE OPENING		
	gaps when on bottom portion (of hood measuring device)	
	as received	COMPLIES (NO GAPS)
	after 5 launderings	COMPLIES (NO GAPS)
MELT, DRIP, SEPARATE, IGNITE	as received	NONE
	after 5 launderings	NONE

PBI PAC I

LABEL and WARNING AND USER INFORMATION

LABEL attached to hood:

Identifies fabric, hood style, lot # traceability, DOM, CLEANING, PRECAUTIONS, and STORAGE instructions, and UL Certification.

WARNING AND USER INFORMATION GUIDE provided with hood:

Identifies imperative information. Please review before wearing.

LABEL DURABILITY AND LEGIBILITY TEST 1

REQUIREMENT SHALL REMAIN ATTACHED AND SHALL BE LEGIBLE

LAUNDERING DURABILITY TEST

torn	NO
legible	YES
in place	YES

ABRASION DURABILITY TEST

torn	NO
legible	YES

HEAT DURABILITY TEST

torn	NO
legible	YES

LABEL HEAT AND THERMAL SHRINKAGE RESISTANCE TEST

REQUIREMENT SHALL NOT MELT, DRIP, SEPARATE, OR IGNITE

MELT, DRIP, SEPARATE, OR IGNITE

as received	NO
after 10 launderings	NO

LABEL FLAME RESISTANCE TEST 1

REQUIREMENT SHALL NOT HAVE AFTERFLAME OF MORE THAN 2 SECONDS

REQUIREMENT SHALL NOT MELT OR DRIP

AFTER FLAME

as received	0 seconds
after 5 launderings	0 seconds

CONSUMED

as received	NO
after 5 launderings	NO

MELT or DRIP

as received	NO
after 5 launderings	NO

ARC THERMAL PERFORMANCE VALUE

NFPA 70E PERFORMANCE SPECIFICATIONS OF ASTM F 1959/F 1959M-06ae1:

	ATPV	HAF (Heat Attenuation Factor)
1 ply PBI	n/a	n/a
2 ply PBI	NOT TESTED	NOT TESTED

CARE, MAINTENANCE, CLEANING, AND STORAGE INSTRUCTIONS

REFER TO WARNING & USER INFORMATION GUIDE FOR COMPLETE CARE, MAINTENANCE, CLEANING, AND STORAGE INSTRUCTIONS.

WARRANTY

Your hood is warranted, by MFA, Inc., to be free from defects in material and workmanship for one year as long as the hood is properly used and maintained in accordance with this user information guide. This warranty specifically excludes accidental damage, intentional or unintentional abuse, natural disasters, damaged caused by disregards of care instructions, and normal wear. This warranty does NOT cover normal wear or unusual exposures, including abrasive wearing of close-tolerance accessories (such as voice amplifiers). This warranty does not cover damage due to exposure to ultraviolet light, chemicals, loss of performance due to normal wear or heat exposure, common fire environment hazards or improper use, storage care of maintenance. This warranty is in lieu of all other warranties, expressed or implied, including but NOT limited to, implied warranties or marketability and/or fitness for a particular purpose. MFA, Inc. shall NOT be liable for incidental or consequential damages.

AFTERMARKET ALTERATIONS

Do NOT attempt to alter or modify your hood. Hoods should NOT be altered to accommodate aftermarket accessories. Hoods must never be punctured to accommodate coat liner snaps even when in bib areas that are normally tucked in. Hoods should NOT be modified with aftermarket custom embroidery done by any other organization beyond MFA, Inc. (as MFA, Inc. is the original manufacturer). Any aftermarket alteration, modification, or addition will VOID the WARRANTY and will impact the UL Certification of Compliance with the current NFPA standard. The only modification permitted is the MARKING RECOMMENDATION below:

MARKING RECOMMENDATION: If permitted by your department or organization, for identification purposes, you may mark your hood. Mark your hood in areas that are NOT exposed during normal wearing. If you mark the product label (sewn into hood), do NOT write over or obscure information on the product label. When marking, use an indelible marker.



FABRIC PERFORMANCE VALUES, CERTIFICATION AND SPECIFICATIONS: In accordance with NFPA 1971-2018 test report dated AUG 2018 performed by Underwriters Laboratories issued to Majestic Fire Apparel, Inc.

ATPV and HAF values: In accordance with ASTM International Standard Test Method F1959-1999, tests performed by Hugh Hoagland

HOOD DESIGN, CERTIFICATION AND SPECIFICATIONS: In accordance with NFPA 1971-2018 test report dated AUG 2018 performed by Underwriters Laboratories issued to Majestic Fire Apparel, Inc.

LABEL CERTIFICATION AND SPECIFICATIONS: In accordance with NFPA 1977-2016 and NFPA 1951-2013 test report dated OCT 2017 performed by underwriters Laboratories issued to label vendor

ALL WEIGHTS AND MEASUREMENTS ARE APPROXIMATE

