



ISO 9001:2008 Registered Manufacturer

## PBI (aka PBI / Lenzing)

**Material Content:** 20% PBI / 80% Lenzing FR  
**Material Construction:** 1 x 1 Rib Knit  
**Material Weight:** 6.5 oz / yd<sup>2</sup> (+1 / -.5)  
**Material Color:** Light Brown (Standard)  
**Color Options Available**

### FABRIC PERFORMANCE VALUES

#### THERMAL PROTECTIVE PERFORMANCE (TPP)

2 ply - as received 35.6 cal/cm<sup>2</sup>  
 2 ply - after 5 washes

#### HOOD MATERIAL BURST STRENGTH

351 N

#### FLAME RESISTANCE TEST

After Flame as received 0 seconds  
 after 5 washes 0 seconds  
 Char Length (wales x cour) as received 16 mm x 13 mm  
 after 5 washes 16 mm x 10 mm

#### CLEANING SHRINKAGE RESISTANCE TEST

Hood Measurement 4%  
 Face Opening Measurement 3%

#### HEAT AND THERMAL SHRINKAGE RESISTANCE TEST

Hood Measurement as received 2%  
 after 5 washes 1%  
 Face Opening Measureme as received 0%  
 after 5 washes 0%

#### SEAM BREAKING STRENGTH TEST

587 N

#### MELT, DRIP, IGNITE, SEPARATE WHEN EXPOSED TO FLAME

None

#### ARC THERMAL PERFORMANCE VALUE (ATPV)

1 ply  
 2 ply

#### HEAT ATTENUATION FACTOR (HAF)

1 ply  
 2 ply

Comfortable against the skin  
 Inherently flame resistant  
 No harsh chemical treatments  
 Maintains performance values after laundering  
 Light weight for body cooling down process  
 Finished to minimize shrinkage  
 Rib knit allows for stretch and shape retention  
  
 Majestic Fire Apparel is a vertical manufacturer  
 Knitting our own fire retardant materials for over 16 years  
 We knit, cut, sew, and ship - all from our location in PA  
**MADE IN USA**

#### NFPA 70E PERFORMANCE SPECIFICATIONS OF

##### ASTM F 1959/F 1959M-06ae1:

HRC Level 1 = minimum 5 cal/cm<sup>2</sup> to 7 cal/cm<sup>2</sup>  
 HRC Level 2 = minimum 8 cal/cm<sup>2</sup> to 24 cal/cm<sup>2</sup>  
 HRC Level 3 = minimum 25 cal/cm<sup>2</sup> to 39 cal/cm<sup>2</sup>  
 HRC Level 4 = minimum 40 cal/cm<sup>2</sup> and over

Meets CAL-OSHA Requirements  
 Passes Federal Test 191, Method 5903.2; CAL OSHA Sections 3406(d)  
 Complies with OSHA Rule 29 CFR Part 1910, 269