



ALPHA

engineered composites

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Fluoroelastomer Belt: FBT 1000

Product Description: 0.100" ; 1 Ply Aramid/PTFE Fluoroelastomer Belt [Press Cured]

Finished Belt Requirement

Color	Black
Thickness, inches	0.100" [+/- 0.010"]
Width, inches *applies to roll goods	42" [+/- 0.5"]
Weight, Pounds/Square yard	9.0 [+/- 1 lb/sqyd]
Operating Temperature, Fahrenheit	450°
Gas Ply Thickness, Minimum inches	0.025"
Outer Ply Thickness, Minimum inches	0.030"

Rubber Compound Requirements

Fluoroelastomer Specification	FSA-DSJ-401-09	ASTM D-6909-10
Fluoroelastomer Content, % Volume	70% Virgin Terpolymer	
Terpolymer Fluorine Content, % Volume	68%	
Specific Gravity, g/cm ³	1.86 [+/- 0.04]	ASTM D-297
Hardness, Durometer Shore 'A' or Equivalent	77 [+/- 5]	ASTM D-2240
Tensile Strength, Minimum PSI	1015 [7-MPa]	ASTM D-412
Elongation, Minimum	275%	ASTM D-412
Methanol Volume Swell, Maximum ¹	30%	ASTM D-471
Toluene Volume Swell, Maximum ¹	10%	ASTM D-471

¹conditions 70 +/- 0.5 hours at 23° +/- 3°C

Dry Heat Resistance²

Weight, Change	+/- 7%	ASTM D-573
Hardness, Durometer Shore 'A' Change	+/- 10	ASTM D-573
Tensile Strength, Maximum Change	+50%	ASTM D-573
Elongation, Ultimate Minimum	225%	ASTM D-573

²conditions 70 +/- 0.5 hours at 260° +/- 5°C

Textile Requirements

Reinforcement Fabric	Aramid Fiber Flextra Blend
Tensile Strength, Minimum lbs/inch [Warp]	400
Tensile Strength, Minimum lbs/inch [Weft]	300

PTFE Film

Etched FEP Film 10 ml

Quality Control

Certifications and test results provided with the product at the time of shipment.

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Specializing in marine, aerospace, automotive and commercial fabrics for thermal and industrial applications

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