



ALPHA

engineered composites

145 Lehigh Avenue, Lakewood, NJ 08701
T: 732.634.5700 F: 732.634.1430 alphainc.com

Fluoroelastomer Belt: FB 2005

Product Description: 0.250" ; Two Ply Aramid Fluoroelastomer Belt [Press Cured]

Rubber Polymer: Dyneon Fluorel, Solvay Solexis Tecnoflon

Finished Belt Requirement

Color	Black
Thickness, inches	0.250" [+/- 0.030"]
Width, inches *applies to roll goods	48" [+/- 1"]
Weight, Pounds/Square yard	18.5 [+/- 1 lb/sqyd]
Operating Temperature, Fahrenheit	450°
Gas Ply Thickness, Minimum inches	0.070"
Outer Ply Thickness, Minimum inches	0.050"

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 Cloth
Tensile Strength, Minimum lbs/inch [Warp]	400
Tensile Strength, Minimum lbs/inch [Weft]	300

Quality Control

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

DATA SHEET # 14058 REV. B DATE: 1/16/2018

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

All statements herein are expressions of opinion that we believe to be accurate and reliable, but are presented without guaranty or responsibility on our part. Statements concerning possible use of our products are not intended as recommendations for their use alone or in combination with any materials or elements to infringe any patents. No patent warranty of any kind, express or implied, is made or intended.