



# Zialoc FireFlex - Turnout Gear Padding

## Foam Characteristics

### Product Specifications

PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
Color	Visual	Gray	
Thickness, (inches)	Internal	(0.031-0.500)	
Density, kg/m <sup>3</sup>	Internal	352	300-473
Compression Force Deflection, kPa	ASTM D1056	67	41-97
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	2.4	< 5
<b>Flammability</b>			
Flame Resistance	UL 94 (File E83967)	Meets	V-0
Flame Spread Index (Is)	ASTM E162	Meets	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Meets	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
<b>Thermal</b>			
Temperature Range, °C (°F)	Internal	-55 to +200 (-67 to +392)	
Low Temperature Flex	ASTM D1056-55°C (-67°F) / 5 hrs	Pass	

### Features & Benefits

- Excellent memory and low stress relaxation reduces maintenance costs
- Resistant to extreme temperatures for consistent performance across many environments
- Rated to most stringent UL flame standards



### Standard Thickness Tolerances

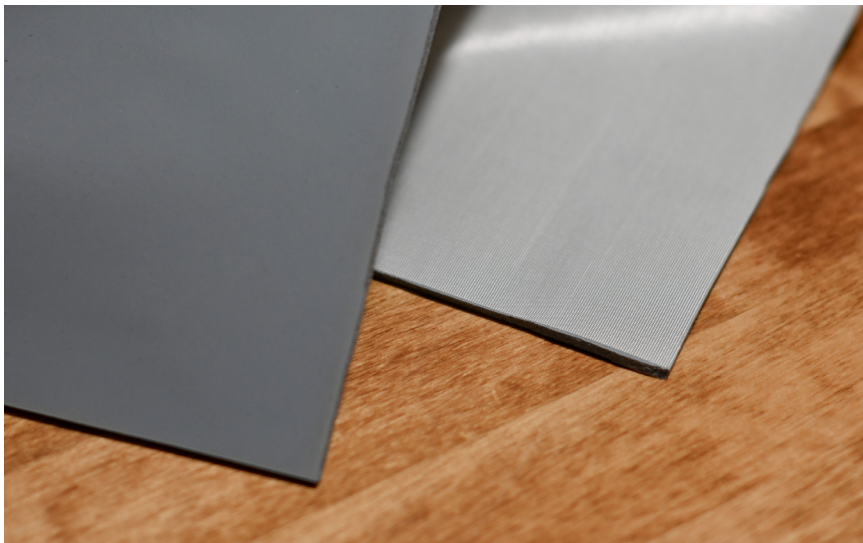
TOTAL THICKNESS	TOLERANCE
mm	mm
0.97	+ 0.381/0.102
1.78	± 0.508
2.57	± 0.508
3.36	± 0.635
4.96	± 0.635
6.53	± 0.762
9.71	± 1.143
12.88	± 1.270



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## Fiber Glass Characteristics

PROPERTY	TYPICAL VALUE
Backing Material	Glass-Cloth
Total Thickness mm (mil)	0.178 (7.0)
Backing Thickness mm (mil)	0.114 (4.5)
Adhesive Thickness mm (mil)	0.064 (2.0)
Tensile Strength N/cm (lb/in)	263 (150)
Operating Temperature °C (°F)	-73 to +260 (-100 to +500)
Color	White



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