



# CarbonX – DJ-1 & DJ-77

**THERMAL CONTROL PRODUCTS, INC.**

Thermal Control Products is a distributor of **CarbonX** products, including **DJ-1** and **DJ-77**. Both are a double jersey interlock knit comprised of a proprietary blend of high-performance fibers.

## Summary Data

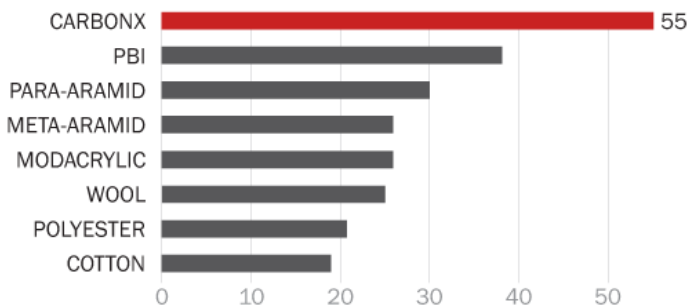
Test	Score	
	DJ-1	DJ-77
<b>TPP</b> – NFPA 1971-2000	15.20	13.00
<b>Thickness</b> (mls)	59.00	46,82
<b>Weight</b> – ASTM D 3776 – oz/yd <sup>2</sup>	9.77	8.20
<b>Weight</b> – ASTM D3776 – gm/m <sup>2</sup>	331	278
<b>Martindale Abrasion</b> – ASTM D 4966	26000.00	18000.00
<b>VF – After Flame</b> – ASTM D6413-1999	0.00	0.00
<b>VF – After Glow</b> – ASTM D6413-1999	1.40	0.00
<b>VF – Char Length</b> – ASTM D6413-1999	0.05	0.40
<b>Arc Rating (ATPV)</b> – ASTM F1959-1999	12.0 – 16.0	12.3
Arc Rating – cal/cm <sup>2</sup>		

## FEATURES:

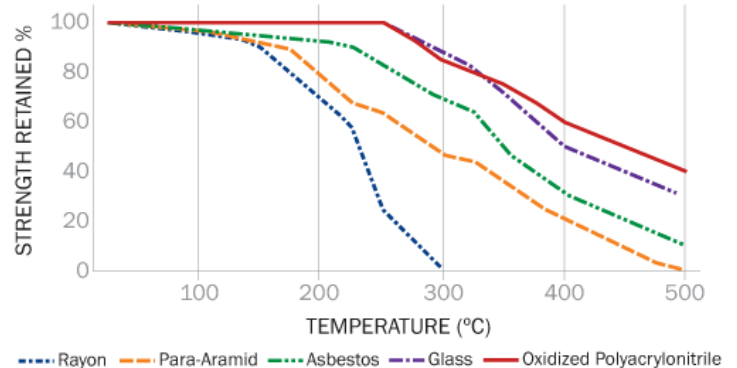
- Will not burn or ignite when exposed to direct flame
- Inherently flame-resistant: will not wash out
- Excellent comfort characteristics: breathable, moisture-wicking
- Multi-directional stretch
- Fade-resistant
- Static-free

TPP = Thermal Protective Performance    VF = Vertical Flame

## LIMITING OXYGEN INDEX (LOI) CERTIFIED LABORATORY TESTING



## STRENGTH RETENTION



## Misc. Test Data – DJ-77

<b>Breaking Strength</b> – ASTM D5034-1995 (lbs)	Length: 80.04 Width: 45.70
<b>Elongation at Peak Force</b> – ASTM D5034-1995 (%)	Length: 44.0% Width: 45.7%
<b>Dimensional Stability</b> – AATCC 135	Length: -9.6% Width: -4.6%
<b>Drying Time</b> – Internal Natick Method 2	78.00 minutes
<b>Colorfastness to Light</b> – AATCC 16 Option A	20/40/60/80/100 hours – Class 5 (no color change)
<b>Pilling Resistance</b> – ASTM D 3512	30 minutes – Class 4-5 (no pilling – slight pilling)

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