



# 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

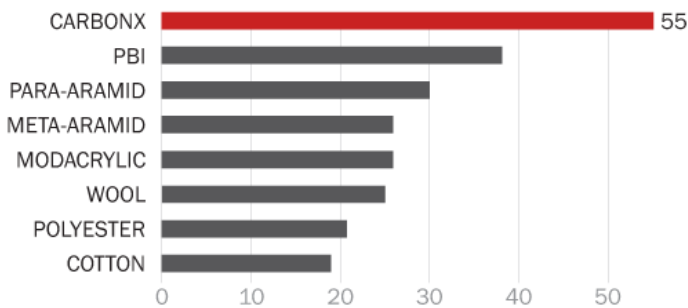
| Test   | Score       |          |
|--|-------------|----------|
|  | DJ-1        | DJ-77    |
| <b>TPP</b> – NFPA 1971-2000                      | 15.20       | 13.00    |
| <b>Thickness</b> (mls)                           | 59.00       | 46,82    |
| <b>Weight</b> – ASTM D 3776 – oz/yd <sup>2</sup> | 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:

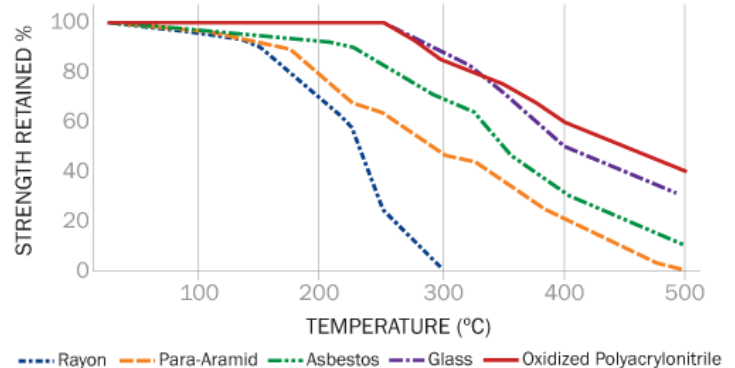
- Will not burn or ignite when exposed to direct flame
- Inherently flame-resistant: will not wash out
- Excellent comfort characteristics: breathable, moisture-wicking
- Multi-directional stretch
- Fade-resistant
- Static-free

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<br>Width: 45.70                        |
| <b>Elongation at Peak Force</b> – ASTM D5034-1995 (%) | Length: 44.0%<br>Width: 45.7%                        |
| <b>Dimensional Stability</b> – AATCC 135              | Length: -9.6%<br>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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