

C2 Carbonized Rayon Fabric

Park's C2 is a continuous filament, high tenacity, carbonized rayon woven cloth intended for use in high-temperature ablative applications.

Key Features & Benefits

- Qualified for major commercial and military programs including Ariane 5 Solid Rocket Motor (data available)
- Better mechanical properties than former industry standard (NARC)
- Equivalent thermal and erosive performance as former industry standard (NARC)
- Excellent availability and lead time
- Dedicated weaving, pre-treatment, pyrolyzation and carbonization manufacturing lines
- A high purify version of C2 is available

Product Forms

- 41" wide fabric, 8 harness satin weave standard
- Biased slit tape
- Chopped molding compound

Applications

- Rocket Nozzles
- Heat Shields
- Combustion Chambers

For Information about Park's materials:

Newton, KS +1.316.283.6500
info@parkaerospace.com
www.parkaerospace.com



Aerospace Composite Materials

C2 Carbonized Rayon Fabric

Technical Datasheet

Fabric Data	Value	Method
Fiber Construction	3300 d, 2000 continuous filament	-
Weave	8HS	-
Construction, Warp x Fill	46 x 44	ASTM D-3775
Weight, oz/yd ² (gsm)	9.22 (313)	ASTM D-3776
Nominal Thickness, in (mm)	0.025 (0.635)	ASTM D-1777
Width, in (cm)	41 (104)	-
Carbon Assay	92% min	ASTM D-3178
Ash Content	2.0% max	-
Specific Gravity	1.6	ASTM D-3800
pH	8.6	ASTM E-70

Fabric Mechanical Properties	Value	Method
Tensile Strength (Warp), lb/in	300	ASTM D-5034
Tensile Strength (Fill), lb/in	148	ASTM D-5034

Packaging

C2 is packaged in sealed polyethylene bags.

Storage

Store in dry atmosphere.

All test data provided are typical values and not intended to be specification values. For review of critical specification tolerances, please contact a company representative directly.

Park Aerospace Corp. reserves the right to make changes without notice to any products described herein. Park does not assume any liability arising out of the application or use of any product described herein; and it does not grant any license under its patent or other rights or any such rights of others. Park also disclaims all warranties whether expressed, implied or statutory, including implied warranties of merchantability or fitness for a particular purpose.

Aeroglide®, ALPHA STRUT™, CoreFix®, Easycure E-710®, Electroglide®, Electrovue™, Peelcote™, Powerbond™, RadarWave™, SIGMA STRUT™ and Tin City Aircraft WorksSM are trademarks or servicemarks of Park Aerospace Corp.

