



**STERLING FIBERS**

**Technical Fact Sheet**

# CPF 403 Fiber Blend

## The Blend Concept

Mixing typical short-cut staple fibers into dry blended compounds, such as non-asbestos friction formulations, is not possible because these fibers tend to entangle with each other leading to fiber balls and an inhomogeneous mix. Sterling Fibers has developed a unique process to intimately blend short staple fiber with acrylic pulp. The pulp fibrils become wrapped around the staple fiber, and these prevent staple fibers from entangling during mixing and eliminate the fiber balling problem.

## General Description

Chemical composition: 33 wt% fibrillated acrylic fiber  
67 wt% melamine fiber

Blend density: 1.32 g/cm<sup>3</sup>  
Moisture regain: < 4%

## Component Properties

	Acrylic	Melamine
Length (mm)	5 - 8	3 - 8
Melting Point (°C)	200*	370*
Tensile Strength (MPa)	300	260
Modulus (GPa)	2.5	7
Density (g/cm <sup>3</sup> )	1.18	1.40

\* - Does not melt, but instead carbonizes.

## Packaging, Handling and Storage

Product is shipped in bags with a net weight of 10 ± 0.2 pounds, with 39 bags to a pallet. It should be stored in a dry location at ambient temperatures.

## IMPORTANT NOTICE

The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

Sterling Fibers, Inc.  
5005 Sterling Way  
Pace, FL 32571

TEL: (800) 874-8593  
FAX: (850) 994-2609

FS-CPF403-0902.wpd