



Technical Fact Sheet

CPF 404 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% glass fiber

Blend density: 1.83 g/cm³
Moisture regain: < 4%

Component Properties

	Acrylic	Glass
Length (mm)	5 - 8	2 - 4
Melting Point (°C)	200*	1300
Tensile Strength (MPa)	300	3450
Modulus (GPa)	2.5	72
Density (g/cm ³)	1.18	2.54

* - Does not melt, but instead carbonizes

IMPORTANT NOTICE

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