STERLING FIBERS

Technical Fact Sheet

CPF 402 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% 6mm high strength acrylic fiber
Blend density:	1.18 g/cm^3
Moisture regain:	< 4%

Component Properties

	Pulp	Staple
Length (mm)	5 - 8	
Melting Point (°C)	200*	
Tensile Strength (MPa)	300	1100
Modulus (GPa)	2.5	11
Density (g/cm^3)	1.18	

* - 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.

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