



# Application Profile

## Quality and Consistency in Innovative Compounded Materials

### Introduction

PTFE COMPOUNDS, INC., backed by more than 30 years' experience in the industry, was formed to meet the demanding need for quality and consistency in compounded materials, not only within lots, but from lot to lot as well. Their large capacity blending equipment enables them to offer billet quantities up to 1200 pounds. They provide a homogenous filled compound that ensures uniformity and stripe free skived sheet. Two examples which show the strength of their innovation are TUFFSHEET and PCI Bearing Compound 213.

### TUFFSHEET

TUFFSHEET is a new proprietary blend of DuPont Kevlar® and Teflon®, which combines the properties of these materials into a durable low wear composite with reduced deformation and creep resistance. TUFFSHEET is suitable for a wide range of applications such as bushings, dry bearings, thrust washers, dry air compressor rings, gaskets, o-rings, rollers, and wear strips. TUFFSHEET product is available as a low flow compression molding powder, as skived sheet, rolled slit strips, wear-strip (with or without adhesive backing), and CNC machined parts made to customer specifications.

### Key Benefits

- Extended Wear Resistance
- Reduced Deformation
- Lower Creep Rate
- Reduced Permeability
- Enhanced Durability

Typical Properties			
Property	Test	Value	UOM
Tesile Strength	ASTM D4745	2100	PSI
Tesile Elongation	ASTM D4745	150	%
Specific Gravity	ASTM D4745	2.04	G/CM <sub>3</sub>
Bulk Density	ASTM D4745	275	G/L
Shrinkage	Billet	4.1	%
Hardness	ASTM D2240	64	Shore D

### PCI Bearing Compound 213

PCI Bearing Compound 213 is a white molding grade compound containing a white mineral filler blended with Teflon® PTFE. Both the filler and PTFE used in the compound are approved by the FDA for use in food contact applications.

### Key Benefits

- Low Coefficient of Friction
- Superior Wear Resistance
- High Operating Temperature
- FDA Compliant
- Low Deformation Under Load

Typical Properties			
Property	Test	Value	UOM
Tesile Strength	ASTM D4745	3400	PSI
Tesile Elongation	ASTM D4745	270	%
Specific Gravity	ASTM D4745	2.22	G/CM <sub>3</sub>
Bulk Density	ASTM D4894	350	G/L
Hardness	ASTM D2240	63	Shore D
Filler Content	ASTM D4745	15 ±	%

### PTFE Compounds, Inc.

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