

# VERSA-TUFF® PINS

## PRODUCT INFORMATION GUIDE



Versa-Tuff®  
Standard Pins

**LENGTH:**  
6.8 Inches

**DIAMETER:**  
0.48 Inches

**CROSS SECTIONAL AREA:**  
0.086 Square Inches

**WEIGHT:**  
0.5 Ounces

**MATERIAL:**  
DuPont® 66 Nylon  
Zytel® 101L Base Resin  
Glass Reinforced 70 G33L

**STRENGTH:**  
Tensile Strength: 27,000 PSI - ASTM D638  
Elongation Break: 3% - ASTM D638  
Shear Strength: 12,500 PSI - ASTM D732

**STIFFNESS & CREEP:**  
Flexural Modulus: 1,300 KSI - ASTM D790  
Heat Deflection Temperature: 480° F - ASTM D648

**TOUGHNESS:**  
Izod Impact Strength 2 Ft-Lb per Inch - ASTM D258

**TESTING:**  
Double Shear: 1,454 Pounds  
Direct Shear Stress: 8,450 PSI

*(Conducted at the University of Wisconsin, Platteville - May 1993)*



Versa-Tuff®  
Breakaway Pins