



**REZ**Coat<sup>®</sup>

# TPU Sample Card

## Thermoplastic Polyurethane



Discover the TPU trusted by industry leaders for strength, flexibility, and unmatched performance.

For more information on E Squared products,  
call us at 908-558-0899 or visit [www.e2techtextiles.com](http://www.e2techtextiles.com)



# E SQUARED

## Dock Seals and Bumpers



### WHY TPU WORKS:

TPU's rugged durability and superior resistance to abrasion, punctures, and harsh environmental conditions make it the material of choice for dock seals. It holds up to repeated contact with trailers and extreme temperature swings, ensuring long-lasting performance in high-traffic loading zones.



**40 OUNCE REINFORCED TPU  
COATED POLYESTER**

ID#10507-4060

### FEATURES & BENEFITS:

- High abrasion and tear resistance for extended wear life
- UV and weather resistant—performs in all climates
- Flexible in cold temperatures for year-round performance
- Low surface energy resists dirt build up.
- Weldable by RF, Hot air or wedge process allowing for efficient fabrication



## WHY TPU WORKS:

TPU's lightweight strength and dependable air retention make it the go-to material for life vest and personal flotation devices (PFDs). With rapid inflation, flexibility, and resistance to punctures or UV degradation, it ensures both performance and safety in critical moments.

## FEATURES & BENEFITS:

- Superior air retention for reliable inflation
- Lightweight for comfort and mobility
- Resistant to saltwater, UV, and mildew
- Weldable for consistent seams and secure inflation chambers
- Soft touch options available for user comfort



### **8 OUNCE REINFORCED TPU COATED NYLON - INFLATABLE**

ID# TPU 1001S



### **7 OUNCE REINFORCED TPU COATED NYLON - INFLATABLE**

ID# PU 201



# E SQUARED

## Hyperbaric Chambers



## WHY TPU WORKS:

In medical-grade and life-sustaining applications like hyperbaric chambers, TPU offers a rare combination of clarity, airtight integrity, and biocompatibility. Its flexibility and weldability allow for precision manufacturing and safe, sealed environments.

## FEATURES & BENEFITS:

- Airtight and pressure-resistant for chamber integrity
- Safe and non-toxic—meets medical-grade standards
- Seam-sealable for airtight construction
- Lightweight yet strong for mobile or portable units



**18 OUNCE REINFORCED TPU  
COATED NYLON - AIR CONTAINMENT**

ID# TPU2008A



**28 OUNCE REINFORCED TPU  
COATED POLYESTER - SPILL CONTAINMENT**

ID# 10509-2849-NAVFAC



## WHY TPU WORKS:

TPU is ideal for flexible tanks and bladders due to its chemical resistance, stretch strength, and low permeation. Whether storing water, fuels, or industrial fluids, TPU maintains integrity while adapting to dynamic fill and pressure conditions.



**35 OUNCE REINFORCED TPU  
COATED NYLON - POTABLE WATER**

ID# TPU 2058

## FEATURES & BENEFITS:

- Low permeation for secure fluid containment
- Remains flexible in extreme temperatures
- Tear- and puncture-resistant for field durability
- Foldable and lightweight for easy transport and deployment
- Excellent chemical and fuel resistance (TPU 2180)



**E Squared Technical Textiles is a trusted innovator in high-performance Thermoplastic Polyurethane (TPU) materials. Our engineered textiles are built to perform in demanding applications—from loading dock seals and marine spill containment to flexible tanks, bladders, and inflatable boats. Backed by decades of expertise and a reputation for reliability, E Squared delivers materials you can count on when performance matters most.**



**Website**



New Jersey, USA



Virginia, USA



Israel



Australia



New Zealand

[www.e2techtextiles.com](http://www.e2techtextiles.com)



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