



SuperTuff® PET Lay Flat Sleeving

Bulletin #S-8
Rev. 1/06

Sleeving of 4025 HS is extremely thin walled heat shrinkable tubing, which provides high dielectric protection and physical toughness. Manufactured exclusively by Stone, this Class 130 tubing is composed of high dielectric polyester film formed into tubing by a proprietary seam. Stone 4025 provides excellent resistance to solvents, cleaning solutions, moisture, heat and physical stress.

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| Features: | Available in inside diameters of 0.625 to 7.5" +/- 0.005" |
| Environmentally friendly | Available in wall thickness of 0.002" and 0.003" +/- .0002" |
| Excellent heat resistance and insulation | |
| Excellent chemical and solvent resistance | Meets Mil Spec DTL-23053/7 |
| Continuous operating temperature -60°C to 130°C | |

Applications: Ultra thin sleeving for cell and rechargeable battery- sleeves-covers for fluorescent lamps for shatter and safety protection-capacitors-roller covers for the paper, printing, textile and food packaging markets-electric motor magnet retention-laser printers and copiers

Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

General Properties for SuperTuff PET Shrinkable Lay Flat Sleeving		
<u>Properties</u>	<u>Test Method</u>	<u>Data</u>
Wall thickness before shrinking	ASTM D374-57T	.002" +/- 10%
Tensile strength (after shrinking)		
Film strip	Instron tensile test	20,000 PSI
Welded seam	Instron tensile test	No apparent loss
Shrinkage at 302°F 15 min at	MD min 20.0% target 25.0% Max 32.0% TD min 35.0% target 40.0% Max 47.0%	
Break tensile strength	min psi 20,000	
Haze	Max 20%	
Melting point	Above 245°C	
Dielectric strength AC voltage	Min 7700 volts	
Dimensional tolerance	Target .0020 – Min .00188, Max .00212	Up to .003" available
Dielectric constant	ASTM D150-54T @ 23°C & 100 HZ @ 23°C & 1KHZ @ 150°C & 100 HZ	3.4 3.3 3.8
Volume resistivity	ASTM D257-58 @ 23°C	Greater than 10 ¹⁴ OHM-CM
Melting point	Fisher John's Melting Point	245°C minimum
Service temperature	Accelerated Thermal Aging	Class F(150°C) Intermit Class B (130°C Cont. Low temp. svc - 60°C
Burning rate	Slow burning – self extinguishing	
Dissipation factor	ASTM D150-54T @ 23°C & 100 HZ @ 150°C & 100 Hz	0.003 0.007
Composition	Polyethylene Terephthalate (conforms to MIL-I-631D, Form F)	
Moisture absorption	1 week @ 25°C	Less than 0.5%
Copper corrosion	ASTM D1000-59	None
Resistance to:	Immersion	Excellent
Industrial solvents	Immersion	Good to Excellent
Acids	Immersion	Good to Excellent
Bases	Immersion	Excellent
Oils & lubricants	Vapor-liquid phase	
Fungus resistance	Soil burial	Inert, non-nutrient
Color	Transparent	

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