



PRODUCT SPECIFICATIONS

"Manufacturing with the environment in mind"®

S82ND2 POLYESTER POLYURETHANE FOAM

PHYSICAL PROPERTIES

TEST VALUES

	U.S. STANDARD AVERAGE		METRIC AVERAGE	
	MINIMUM	AVERAGE	MINIMUM	AVERAGE
Density	2.00 ± 10 % lbs./ft. ³		32.04 ± 10 % kg/m ³	
Tensile Strength	18.0 psi	25.0 psi	124 kPa	172 kPa
Elongation	170%	220%	170%	220%
Tear Resistance	2.00 pli	2.50 pli	350 N/M	438 N/M
Compression Set C _t , % 50 % Deflection	Max. 8%			
Compression Force Deflection 25 % Deflection	0.40 psi	0.50 psi	2.8 kN/M ²	3.5 kN/M ²
50 % Deflection	0.45 psi	0.60 psi	3.1 kN/M ²	4.1 kN/M ²
Retention of Tensile Strength after 3 hours, 105°C, Steam Autoclave	Min. 70%			
Retention of Tensile Strength after 22 hours, 140°C, Dry Heat Aging	Min. 70%			
Cell Count - Pores Per:	55 ± 5/inch		22 ± 3/cm	

Flammability Characteristics: §

- Meets the requirements of S4.3 of Federal Motor Vehicle Safety Standard No. 302.‡
- Meets the requirements of Underwriters Laboratories Standard for Safety UL 94 for classification HF-1. ¥

Features:

- Clickable
- Restriction of Hazardous Substances European Union Directive [ROHS3] - (2015/863/EU)
Meets the Requirements of SVHC through today's date.
- Compliant with European union REACH (Registration, Evaluation and Authorization of Chemical Substances - EC1907/2006)

CFC's are not used in the manufacturing of Wm. T. Burnett Co. polyurethane foams.

Edition: 6/5/2018

FOAM DIVISION: 2112 Montevideo Road • Jessup, MD 20794 • Tel: 410.799.1788 • Toll Free: 800.638.0606 • Fax: 410.799.2620

<http://www.wmtburnett.com/>



PRODUCT SPECIFICATIONS

"Manufacturing with the environment in mind"®

* Test Methods : ASTM-D3574-[latest revision]. Standard Methods of Testing Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foam.

‡ FMVSS 302 is a test procedure that specifies the burn resistance requirements for material used in the occupant compartments of motor vehicles.

¥ UL 94 is a test for Flammability of Plastic Materials for Parts in Devices and Appliances.

§ The flammability test(s) described in this specification is/are small scale test procedure(s) performed under controlled laboratory conditions, and is/are not intended herein to reflect the hazards presented by this or any other material under actual fire conditions.

NOTE: This specification is for flat foam only.