



**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. <sup>3</sup>		32.04 ± 10 % kg/m <sup>3</sup>	
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 <sub>t</sub> , % 50 % Deflection	Max. 8%			
Compression Force Deflection 25 % Deflection	0.40 psi	0.50 psi	2.8 kN/M <sup>2</sup>	3.5 kN/M <sup>2</sup>
50 % Deflection	0.45 psi	0.60 psi	3.1 kN/M <sup>2</sup>	4.1 kN/M <sup>2</sup>
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
- Meets the Requirements of RoHS through June 2013 Revision of SVHC ( Restriction of Hazardous Substances European Union Directive – 2002/95/EC)
- 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.

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\* 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.