



POLYURETHANE (PUR) FOAM, SLAB STOCK

WSK-M2D417-A

1. SCOPE

The material defined by this specification is a slab stock flexible polyester polyurethane foam.

2. APPLICATION

This specification was released originally for material used as heater seal.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.4 APPEARANCE

The foam shall have a homogeneous medium sized cell structure with no large voids or solid spots which may impair the serviceability of the material.

3.5 TEST SPECIMEN

3.5.1	Density, min (ISO 845/ASTM D 3574, Test A)	28 kg/m ³
3.5.2	Tensile Strength, min (ISO 1798/ASDM D 3574, Test E, 50 mm bench marks, 5 specimens minimum)	100 kPa
3.5.2.1	Elongation at Break, min (Test according to para 3.5.2)	120%
3.5.3	Tear Strength, min (ISO DIS 8067/ASTM D 3574, Test F, 50 mm/minute test speed)	250 N/m
3.5.4	Compression Set, max (ISO 1856, Method A/ASTM D 3574, Test D, Ct calculation, 22 h at 70 °C, 50% deflection, 3 specimens minimum)	7%
3.5.5	Compression Deflection Stress (ISO 3386/1 at 40% compression, specimen size 100 x 100 x 50 mm, 100 +/-20 mm/min test speed)	3.5 - 5.0 kPa

Date	Action	Revisions
2003 10 06	Revised	Para 3.0 inserted; para 3.1, 3.2, 3.3, 3.6, 3.7 and 4 deleted
1990 12 03	EP00E01031542000	Revised Scope
1989 11 17	SM/EQ9859 TP	Released



3.5.6	Heat Ageing (ISO 2440/ASTM D 3574, Test K, 22 h at 140 +/- 2 °C)	
3.5.6.1	Compression Deflection Stress Change, max (Test acc. to para 3.5.5, 3 specimens minimum)	30%
3.5.7	Humidity Ageing (AUTOCLAVE) (ISO 2440/ASTM D 3574, Test J, 100 x 100 x 50 mm specimen, 3 h at 105 °C)	
3.5.7.1	Compression Deflection Change Stress Change (Test acc. to para 3.5.5.)	60%
3.5.7.2	Compression Set, max (Test acc. to para 3.5.4 absolute figures)	40%
3.5.8	Staining	None
	Test Method: Cover an approx. 100 mm x 100 mm x 10 mm foam specimen (with surface skin on one side) with a section of light colored standard vinyl (FLTM BN 103-1). Expose assemblies (surface skin of foam facing light source) for 150 h in the Fluorescent Sunlamp Cabinet (equipment as specified in FLTM BO 115-01). Control specimens of vinyl should also be exposed. Evaluate the standard material after cooling to room temperature.	
3.5.9	Fogging (FLTM BO 116-03)	
	Fog Number, min	70
	Formation of excessive amounts of clear film or droplets is cause for rejection.	
3.5.10	Odor, max (FLTM BO 131-01/SAE J1351)	Rating 2
3.5.11	Ash Content, max (ISO 247, Method B/ASTM D 1278, 800 +/- 25 °C)	1%
3.5.12	Flammability (ISO 3795)	
	Burn Rate, max	100 mm/minute