

eSORBA SU series

Technical Information (SU C-IS)

1. Introduction

eSORBA SU is specifically designed for insulation of HDD (Hard Disk Drive) PCB board. Excellent sound proofing, good vibration damping, and excellent shock absorption properties are provided for this purpose. These outstanding properties results from unique structure of eSORBA series representing high density PU foam comprised of semi-open micro cells distributed around at the size of 200 μ m. In addition, eSORBA SU has virtually no harmful ionic species for lead-free solders, which is essential for the design of environmentally friendly HDD systems. SU series is inherently flame retardant and conforms to the requirement for UL HBF.

2. Representative Applications

- Insulator for HDD
- Shock absorption
- Sound proofing

3. Technical data

All data hereunder are the representative value and do not mean the specification of the product. Also, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your own plant or laboratory.

Properties (PU foam)	Unit	Values	Test method
Thickness	mm	1.0~2.0	Thickness Gauge
Density	g/cm ³	0.20	ASTM D3574-05
Standard Color ¹⁾		Black	
25% CFD	Kg/cm ²	0.13	ASTM D3574-05
Compression Set ²⁾	% average	1.6	ASTM D3574-05
Dimensional Stability ³⁾	% max change	± 2	
Ball Rebound	%	36	ASTM D3574-05
Flammability		UL94-HBF	

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Properties	Unit	Values	Test method
Outgassing	Total mass Loss %	2.3	ASTM E595-06
Temperature resistance (constant use)	°C max	70	AES J-2236
Temperature resistance (intermittent use)	°C max	120	ASTM D746-98
Temperature resistance (Embrittlement)	°C	- 60	SKUTIS-QM-10
UV resistance ⁴⁾	Pass		

- 1) Different colors are available on request (Minimum quantity is applied)
- 2) 50% compressed at 70 °C for 22hrs
- 3) 22hrs at 80 °C
- 4) UV acceleration Test. 340nm @ 70 °C for 200hrs

* SU series is PET-supported grade. Therefore, mechanical properties such as tensile strength and elongation are same with those of PET.

4. Packing & Availability

- Sheet packing
100~200 sheet / 1box
 - Export packing
Max 80boxes in a 20ft dry container
 - Available thickness
1.0t~2.0 (standard size)
- Please contact us if other thickness is needed.

5.Storage

- Please keep in a dried condition at room temperature.
- For toxicity and other cautions, please refer to MSDS