

## 1. How to choose the suitable chamber? 如何选择合适的测试仓

- i. Compare the sample's size with the chamber's size  
比较样品的尺寸和测试仓的尺寸
- ii. Calculate the loading factor  $L(m^2/m^3)$ , and ensure  $0.5m^2/m^3 \leq L \leq 2.0m^2/m^3$  using formula below:

$$L = \frac{\text{Surface area}_{\text{sample}}}{\text{chamber volume}}$$

计算承载率  $L(m^2/m^3)$ ，保证  $0.5m^2/m^3 \leq L \leq 2.0m^2/m^3$ ；使用如下公式进行计算：

$$\text{承载率} = \frac{\text{样品表面积}}{\text{测试仓体积}}$$

## 2. VOC chamber size and typical samples 测试仓的尺寸和典型样品

Chamber 测试仓	8m <sup>3</sup>	5m <sup>3</sup> (size 1)	5m <sup>3</sup> (size 2)
Suitable sample size H(m)*W(m)*D(m) 合适的样品尺寸 高度*宽度*深度	1.70*1.60*2.50	1.90*1.70*1.30	1.50*1.50*2.05
Suitable surface area(m <sup>2</sup> ) 合适的样品表面积(m <sup>2</sup> )	4.0~16	2.5~10	2.5~10
Typical samples 典型样品	Bed: length >2.0m 床类: 长度 >2.0m	Kit: height <1.5m 工具箱: 高度 <1.5m	Sofa: 2 seats 沙发: 二人座
	Sofa: 3 seats 沙发: 三人座	Cover 床罩&沙发套	Sofa: small 3 seats 沙发: 小的三人座
	Sofa: 2 seats (length >2.0m) 沙发: 二人座 (长度 >2.0m)	Sofa: big single seat 沙发: 大的单人座	Sofa bed: length ≤2.0m 沙发床: 长度 ≤2.0m
	Mattress: 1.8m*2m (thickness ≥0.20m) 床垫: 1.8m*2m (厚度 ≥0.20m)	Mattress: 0.9m*2m (no limited thickness) 床垫 0.9m*2m (厚度无要求)	Mattress:(0.9m~1.4m)*2m (no limited thickness) 床垫: (0.9m~1.4m)*2m (厚度无要求)
	Mattress: 1.5m*2m (thickness ≥0.30m) 床垫: 1.5m*2m (厚度 ≥0.30m)	Mattress: (≤0.8m)*2m (thickness ≥0.05m) 床垫: (≤0.8m)*2m (厚度 ≥0.05m)	
	Closet: height >2m 衣柜: 高度 >2m		Mattress: (≥1.5m)*2m (thickness ≤0.28m) 床垫(≥1.5m)*2m (厚度 ≤0.28m)
	Table: length >2.0m 桌子: 长度 >2.0m		Table: length ≤2.0m 桌子: 长度 ≤2.0m

Chamber 测试仓	3m <sup>3</sup>	1m <sup>3</sup>	500L
Suitable sample size H(m)*W(m)*D(m) 合适的样品尺寸 高度*宽度*深度	1.20*1.40*1.40	0.75*0.75*1.50	0.70*0.80*0.55
Suitable surface area(m <sup>2</sup> ) 合适的样品表面积 (m <sup>2</sup> )	1.5~6.0	0.7~2.0	0.3~0.8
Typical samples 典型样品	Mattress for child 儿童用床垫	Foam 泡棉	
	Sofa: single seat 沙发: 单人座	Work chair 办公椅	Bamboo basket 竹篓
	Sofa bed: depth < 1.0m 沙发床: 长度 < 1.0m	Chair for child 儿童用椅子	Textile bag 布制背包
	Leather sofa: depth <1.4m 皮制沙发: 长度 <1.4m	Rug: size <1.5m*0.8m 地毯: 尺寸 <1.5m*0.8m	Small seat 小座椅
	Sofa: single seat with high backrest 沙发: 高靠背的单人座	Pillow(1 piece or piece ) 枕头 (1 或 2 套)	Door mat 地垫
	Cushion: size (<0.8m)*0.8m*0.4m 坐垫: 尺寸 (<0.8m)*0.8m*0.4m	Single Square stool: 单人座小方凳 size <0.6*0.6*0.4 尺寸 <0.6*0.6*0.4	Bath mat 浴室防滑垫 0.6m*0.9m(1 piece) 0.6m*0.9m(1 套) 0.4m*0.6m(2 piece) 0.4m*0.6m(2 套)
	Cushion: size (<1.2m)*1.2m*0.2m 坐垫: 尺寸 (<1.2m)*1.2m*0.2m	Blanket for child 儿童用毛毯	Gloves 手套
	Cover 床罩&沙发套	Wooden panel 木质平板	

Chamber 测试仓	250L	100L	25L
Suitable sample size H(m)*W(m)*D(m) 合适的样品尺寸 高度*宽度*深度	0.60*0.60*0.50	0.40*0.30*0.50	0.25*0.25*0.15
Suitable surface area(m <sup>2</sup> ) 合适的样品表面积 (m <sup>2</sup> )	0.13~0.4	0.05~0.2	0.013~0.04

Chamber 测试仓	250L	100L	25L
Typical samples 典型样品	Toy 玩具		
	Foam 泡棉		Artificial leather-raw material 人造皮革
	Note book 笔记本		Leather-raw material 皮革
	Table ware 餐具		Stickers 贴纸
	Little box 小盒子		Woolen yarn 毛线
	Gloves 手套		PCB board PCB 电路板
	Door mat 地垫	Stationery 文具	Little night light 小夜灯
	Helmet 头盔	Mask 面具	Soap or shampoo box 香皂盒子或洗发水瓶子
	Baby clothes 儿童衣物	Ornament sticker 装饰用贴纸	Silk paper 绢纸
	Hanger 衣架	Cup 杯子	Hook suction cup 吸盘挂钩
	Photo frame 相框	Textile material 纺织布料	