

产品描述 Product Description

BWVB108 是一款由 LEBOW 最新开发的阻燃性能极其优秀的无卤聚碳酸酯薄膜，阻燃可达 5VB 等级。LEBOW 突破了技术难题，不仅使 0.25mm-1.0mm 的薄膜阻燃性能从 V-0 提升到 5VB 阻燃级别，成为全球首款通过了 UL 认证的 5VB 阻燃薄膜产品，同时还满足最新 PFAS FREE 的环保要求和其他常规 RoHS、REACH、无卤等环保法规。该产品具有良好尺寸稳定性、力学性能、成型性能、及绝缘性能，适用于对阻燃和环保要求更高的应用领域。详细性能见下表。

BWVB108 is a halogen-free polycarbonate film with exceptional flame-retardant performance, newly developed by LEBOW. It achieves a 5VB flame-retardant rating. LEBOW has overcome significant technical challenges, elevating the flame-retardant performance of films with a thickness of 0.25mm to 1.0mm from V-0 to 5VB. It has become the world's first UL-certified 5VB flame-retardant film. Additionally, the product meets the latest PFAS FREE environmental requirements as well as other standard regulations, including RoHS, REACH, and halogen-free standards. With excellent dimensional stability, mechanical properties, formability, and insulation performance, it is ideal for applications with higher demands for flame retardancy and environmental compliance. Detailed performance specifications are provided in the table below.

物性表 Typical Property Value

属性 Property	测试方法 Test Method	单位 Units	测试值 Value
物理性能 Physical			
密度 Density	ISO 1183	g/cm ³	1.2
吸水率 Absorption	ISO 62	%	0.3
耐热性能 Thermal			
玻璃化转变温度 Glass Transition Temperature	ISO 11357	°C	140
机械性能 Mechanical			
抗拉强度 Tensile Strength @ Yield	ISO 527	MPa	55
阻燃性能 Flammability			
阻燃防火等级 Fire Rating (0.25-1.03mm)	UL 94 (5V)	-	5VB
电气性能 Electrical			
电气强度 Dielectric Strength (@0.43mm)	IEC 60243-1	kV/mm	50
击穿电压 Breakdown Voltage(@0.43mm)	IEC 60243-1	kV	21.5
体积绝缘 Volume Insulation	IEC 62631-3-1	Ωcm	10 ¹⁶
表面绝缘 Surface Insulation	IEC 62631-3-1	Ω	10 ¹⁵
介电常数 Dielectric Constant	IEC 60250	-	3
介电损耗 Dielectric Loss	IEC 60250	-	1.2*10 ⁻³

注：产品数据为典型值，非保证值，请用户在使用前自行测试，如有疑问，请联系当地力博为材料销售。

Note: The above product property data are typical values, not guaranteed value. If there is any question, please contact our distributors.

外观 Appearance

型号 Type	颜色 Color	厚度范围 Thickness	公差范围 Tolerance	外观纹理 Surface Texture
BWVB108	黑色 Black	0.25-1.0mm	±5%	亮哑/中砂 Fine Matte /Velvet

卷材规格明细表 Roll Specification

厚度 Thickness (mm)	宽度 Width(mm)	长度 Length(m)	重量 Weight(kg)	面积 Area(m ²)
0.25	930	320	89.3	297.6
0.38	930	210	89.3	195.8
0.43	930	186	89.3	173.1
0.5	930	160	89.3	148.8
0.76	930	105	89.3	97.9
1.0	930	1.83	2.04	1.70

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