

TYPICAL PROPERTIES OF FLAME RETARDANT

POLYCARBONATE FILM

Classification

- Electronic Flame Retardant Series
- New Energy Battery Flame Retardant Series

Features

- High strength
- Good insulation
- Impact resistance
- Good flame retardancy
- High-temperature resistance
- Environmentally friendly and safe

Application

Electronic Flame Retardant Series

It can be used in various electronic and electrical products to provide insulation and electronic shielding. Such as laptops, TVs/monitors, power shielding, membrane switches, insulation gaskets, fire labels, power supplies, disk drives, etc.

New Energy Battery Flame Retardant Series

It can be applied to automotive battery cells, modules, PACKs, energy storage batteries, etc.

Туре	Color	Texure	Thickness(mm)	Width(mm)				
Specification								
Film	Notural Plack	Polished/Polished Matte/Polished Fine Velvet/ Matte Velvet /Matte Velvet/Fine velvet	0.05 - 0.5	930, 1220				
Sheet	ivatural, DIdCK		0.25 - 1.2	915, 1000				
Tolerances	T>05mm±3%,	0.25 <t≤0.5mm±5%, 0.1≤<sup="">-</t≤0.5mm±5%,>	T≤0.25mm±10%, T<0.	1mm±0.008mm				

Properties	Value	UNITS	Method			
PHYSICAL						
Specific Gravity	≥1.2	G/cm ³	ISO 1183			
Water Absorption Equilibrium	≤0.35	%	ASTM D570			

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		MECHANICAL					
Tensile Strength		TD:≥55 MD:≥60 MPa		ISO527			
Tensile Modulus		≥2200	MPa	ISO527			
Elevural modulus		Electronic series ≥80	MDo	150178			
riexulai mouul	12	Battery series ≥90	IVIPa	130176			
Elongation-at-break		Electronic series ≥80	%	GB/T1040.3			
		Battery series ≥90	20				
Temperature Resistance							
Vicat Softening Temperature		Electronic series ≥138	°C	ISO306			
		Battery series ≥140	C				
Thermal Expansivity		6.5*10 ⁵	/°C	ISO11359			
Electrical							
Permittivity		≥3.0	-	IEC60250			
Voltage test		≥30	KV/mm	IEC60243(DC)			
Volume Resistivity		≥10 ¹²	Ω.cm	IEC60093			
Surface Resistivity		≥10 ¹³	Ω	IEC60093			
Flame Retardant Properties							
UL Flame Retardant Level	@≥10 mils	Electronic series V-0, V-2	111.94	UL BULLETIN 94			
		Battery series V-0	0194				
	@<10 mils	Electronic series VTM-0, VTM-2	111.94				
		Battery series VTM-0	0194	OL DOLLLING 94			

Note: The above data are typical values obtained under standard methods and should not be interpreted as unstable application conditions.