

TYPICAL PROPERTIES OF BLISTER POLYCARBONATE FILM

Classification

- Transparent Series
- Texture Series
- Color Series

Features

- Various colors
- Good toughness
- Good dimensional stability
- Good heat and weather resistance
- Strong impact and compression resistance
- Custom colors and surface textures

Application

It can be widely used in various types of protective helmets, blister toys, packaging boxes, etc.

Type	Color	Texure	Thickness(mm)	Width(mm)
Specification				
Film	Natural, Customized	Polished/Polished	0.25 - 0.5	930, 1220
Sheet		Polished/Brushed Polished/Diamond	0.5 - 1.5	915, 1000
Tolerances	0.25 < T ≤ 0.5mm ± 5%, 0.1 ≤ T ≤ 0.25mm ± 10%			

Properties	Value	UNITS	Method
PHYSICAL			
Specific Gravity	≥ 1.2	G/cm ³	ISO 1183
Haze	Transparent: < 0.5	%	ASTM D1003
	Texture: > 60		
	Color: -		
Light Transmission	Transparent: > 89	%	ASTM D1003
	Frosted: > 80		
	Color: -		
Water Absorption Equilibrium	≤ 0.35	%	ASTM D570
MECHANICAL			

Tensile Strength	TD:≥55 MD:≥60	MPa	ISO527
Tensile Modulus	≥2200	MPa	ISO527
Flexural modulus	≥80	MPa	ISO178
Elongation-at-break	≥90	%	GB/T1040.3
Temperature Resistance			
Vicat Softening Temperature	≥138	°C	ISO306
Thermal Expansivity	6.5*10 ⁵	/°C	ISO11359
Electrical			
Permittivity	≥3.0	-	IEC60250
Voltage test	≥30	KV/mm	IEC60243(DC)
Volume Resistivity	≥10 ¹³	Ω.cm	IEC60093
Surface Resistivity	≥10 ¹⁴	Ω	IEC60093

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