

TYPICAL PROPERTIES OF LUGGAGE POLYCARBONATE FILM

Classification

- Transparent Series
- Texture Series
- Color Series

Features

- Lightweight
- Bright colors
- Easy to clean
- Good water resistance
- Strong drop resistance
- Excellent compression resistance
- Custom colors and surface textures

Application

It can be widely used in luggage products such as suitcases, shoulder bags, handbags, cosmetic bags, etc.

Type	Color	Texure	Thickness(mm)	Width(mm)
Specification				
Film	Natural, Customized	Polished/Polished	0.175	0 - 1200
		Polished/Brushed	0.2 - 0.5	0 - 1200
		Polished/Dull polish Polished/Diamond		
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	≥90	MPa	ISO178
Elongation-at-break	≥90	%	GB/T1040.3
Temperature Resistance			
Vicat Softening Temperature	≥135	°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.