

UVTPC-OP Optical Grade Polycarbonate Film

UVTPC-OP optical grade polycarbonate film offers optical clarity, and provides high light transmittance and very low haze, both surfaces are polished.

Meantime, optical-grade polycarbonate film offers high impact resistance, flexibility, and great flame retardant. Therefore, it is the best material for applications requiring low distortion with optimal visual quality.

Products Range

Model	Description	Packaged Type
UVTPC-OP-11	Optical clear polycarbonate film	Roll
UVTPC-OP-F11	Optical clear polycarbonate film, Flame Retardant Grade V-0/UL94	Sheet

Dimension (UVTPC-OP-11 as Roll)

Thickness, mm	Length (m)	Width is 930 mm	Width is 1220 mm
0.125	400	<input type="radio"/>	<input type="radio"/>
0.175	350	<input type="radio"/>	<input type="radio"/>
0.2	325	<input type="radio"/>	<input type="radio"/>
0.25	300	<input type="radio"/>	<input type="radio"/>
0.3	250	<input type="radio"/>	<input type="radio"/>
0.375	200	<input type="radio"/>	<input type="radio"/>
0.5	150	<input type="radio"/>	<input type="radio"/>

Dimension (UVTPC-OP-11 as Sheet)

Thickness (mm)	915×1220 (mm)	915×1830 (mm)	1000×2000 (mm)	1220×1830 (mm)	1220×2440 (mm)
0.3 – 0.4		○	○		○
0.5 – 1	○	○	○	○	○
1.5 – 4	○				○

Customized sizes are available.

Dimension (UVTPC-OP-F11 as Sheet)

Thickness (mm)	915×1220 (mm)	915×1830 (mm)	1000×2000 (mm)	1220×1830 (mm)	1220×2440 (mm)
0.8mm, 1mm, 1.5mm	○	○	○	○	○
2mm, 2.5mm, 3mm, 4mm	○				○

Physical Properties

Property	Value	Unit	Test Method
Density	1.2	g/cm ³	ISO 1183
Haze	<0.5	%	ASTM D1003
Light Transmission	89	%	ASTM D1003
Tensile Strength	60	MPa	ISO 527
Elongation	>100	%	ISO 527
Bend Strength	91	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 178

Surface tension	≥34	Dyn/cm	Test fluid
Dielectric Constant	3	-	IEC60250
Resistant Puncture Voltage	30	MV/mm	IEC 60243
Surface resistivity	1.00E+16	Ω/square	IEC 60093
Volume resistivity	1.00E+17	Ω-cm	IEC 60093
Coefficient of Thermal Expansion	5.8	×10 ⁻⁵ /°C	ISO 11359
Thermal Conductivity Rate	0.2	W/(m*K)	ASTM D5470
Thermal Shrinkage	0.5~0.7	%	ASTM D1204
Tg	152	°C	ISO306
Grade of resistant flame	V-0 or V-2		E249605

Main Benefits

High optical clarity and low Haze, and low distortion;

Excellent fire retardant property and fireproof performance;

Good heat resistance, electrical and mechanical properties, dimension stability

Great machinability and can be die-cut, drilled, screwed, vacuum formed, thermoformed, molded;

Contact Us

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