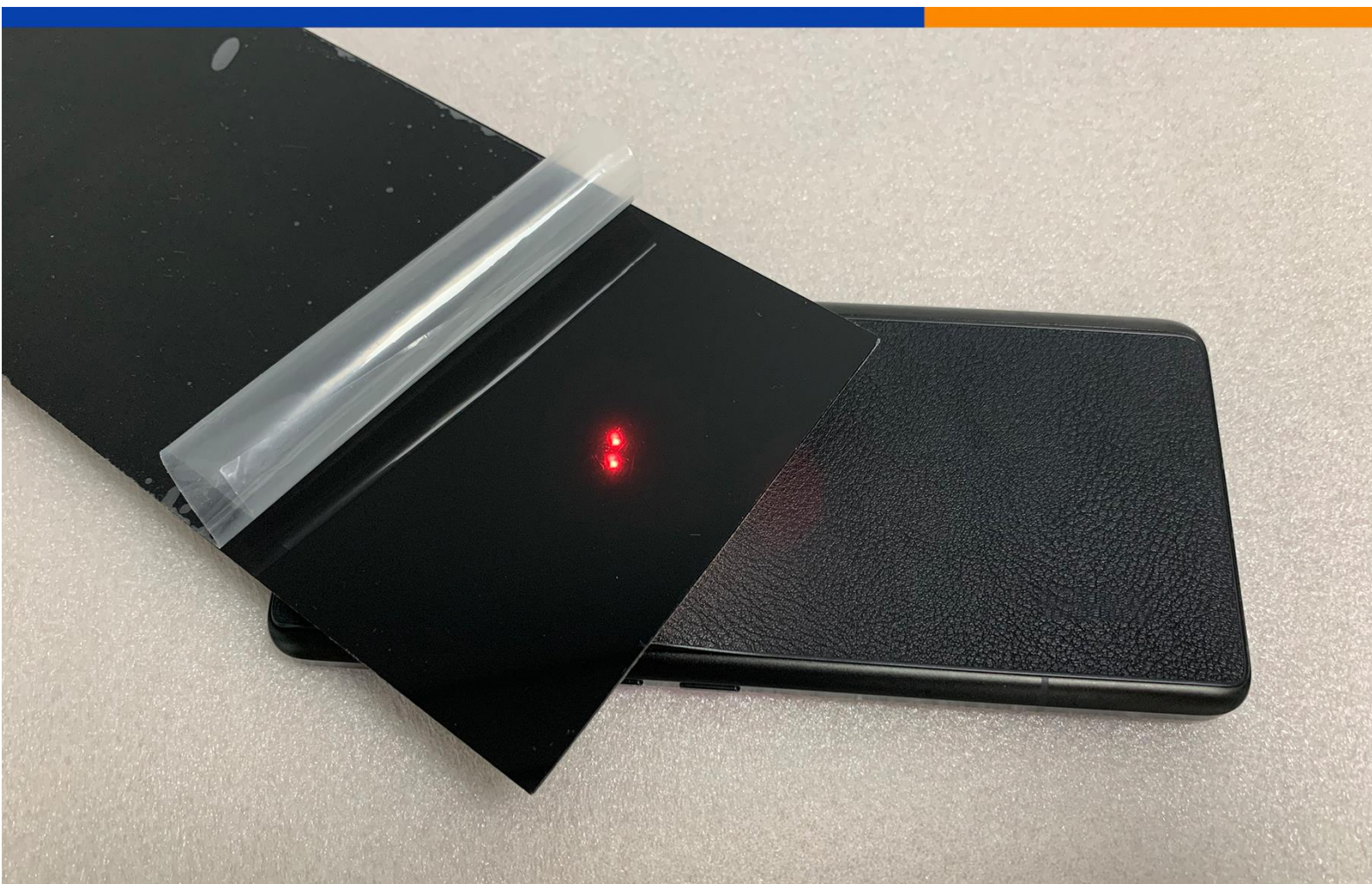




ONE-STOP SUPPLIER OF ENGINEERING PLASTIC



UVPLASTIC

IR Transmitting Polycarbonate (UVFPC-IRT)

www.uvplastic.com

www.uvacrylic.com

ABOUT UVPLASTIC

2003

Founding Time

165

Staffs

50+

Countries

1200+

Clients

12+

Millions

WHO WE ARE

UVPLASTIC Material Technology Co., Ltd is a *ONE-STOP SUPPLIER* in the engineering plastic field, established in 2003 at Suzhou, China. After many years of continuous effort, we have one subsidiary and three trademarks ([UVPLASTIC](#), [UVACRYLIC](#), [VIEWSKY](#)), main business are:

1. Engineering Plastic: providing polycarbonate and acrylic in all forms;
2. Machining Service: providing the integrated machining solution for engineering plastic;
3. Application: we design and manufacture products based polycarbonate and acrylic, including [VIEWSKY Bubble Tent](#), [Geodesic Dome Tent](#), [Office Chair Mat](#), [Riot Shield](#), Mini-Greenhouse, etc.

Today, UVPLASTIC is active in architecture & construction, agriculture, medical industry, auto industry, security industry, electronic industry, POP display, optical industry, and industrial fabrication, etc.

COOPERATION PARTNER



WHY UVPLASTIC

One-Stop Supplier



UVPLASTIC is a one-stop [supplier of polycarbonate](#) and [acrylic sheets](#) in all forms. Meantime, we offer the complete system for the greenhouse, building roof, and facade system.

Machining Service



With more than 15 years of experience and high efficient working style, UVPLASTIC can build the prototype and will make customer's ideas come true within short time.

Design and Development



With assistance from CAD, Solidworks, CATIA, and UG, UVPLASTIC works with global engineers to discuss product feasibility and find the best solution for the projects.

Design it and make it



UVPLASTIC have designed some products based on polycarbonate and acrylic, such as VIEWSKY Bubble Tent, Geodesic Dome Tent for hotel, restaurant, glamping, and display application. The mini-greenhouse and office chair mat are popular all over the world.

FEATURED PRODUCTS

UVPLASTIC Polycarbonate

[Solid Polycarbonate Sheet](#);

[IR Transmitting Polycarbonate](#)

[Anti-Static Polycarbonate](#);

[Polycarbonate Light Diffuser](#);

[Multi-wall Polycarbonate](#);

[Polycarbonate Film](#);

[Corrugated Polycarbonate](#);

[Polycarbonate Roofing Panel](#);

[Polycarbonate Facade](#);

Machining Service

[Machining Polycarbonate](#);

[Custom Acrylic](#);

UVACRYLIC Plexiglass:

[Clear Acrylic Sheet](#);

[Colored Acrylic Sheet](#);

[Acrylic Rod](#);

[Acrylic Tube](#);

[Acrylic Mirror](#);

[Acrylic Block](#);

[LGP Acrylic](#);

[Acrylic Film](#);

Glamping Dome Tent

[VIEWSKY Bubble Tent](#);

[Geodesic Dome](#);

IR Transmitting Polycarbonate (UVFPC-IRT)

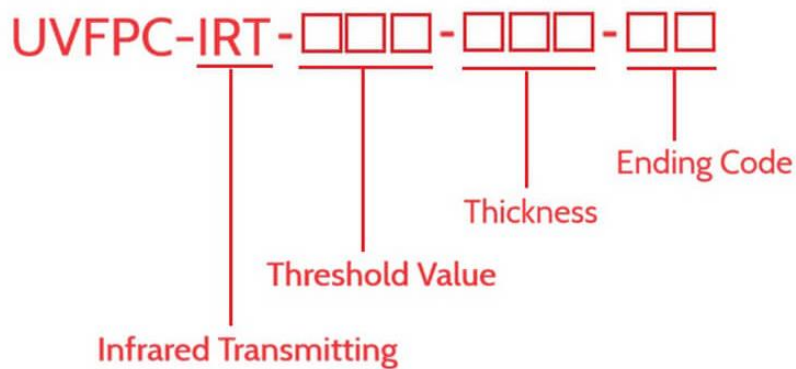
Introduction

UVFPC-IRT is a family code of UVPLASTIC Infrared Transmitting Polycarbonate, which transmits infrared rays while blocking ultraviolet (UV) and visible light by the specifically formulated polycarbonate material.

IR Transmitting Polycarbonate is an opaque black or transparent plastic sheet that offers the same mechanical properties as a standard [solid polycarbonate sheet](#) but allows infrared light to pass through. It is the right material for transmitters and receivers of infrared rays, such as Cameras, Rifle Optics, Sighting Devices, Unmanned Aerial Vehicles, Automatic Drives, and Home Automation, etc.



Product Code



No.	Code	Description
1	IRT	IR Transmitting
2	Threshold Value	The Minimum Light Wavelength That Pass the IRT Polycarbonate
3	Thickness Code	500: Thickness is 0.5mm; 800: Thickness is 0.8mm; 1000: Thickness is 1mm; 1200: Thickness is 1.2mm; 1500: Thickness is 1.5mm;
4	Ending Code	N: Normal Grade; SR: Scratch Resistant Grade

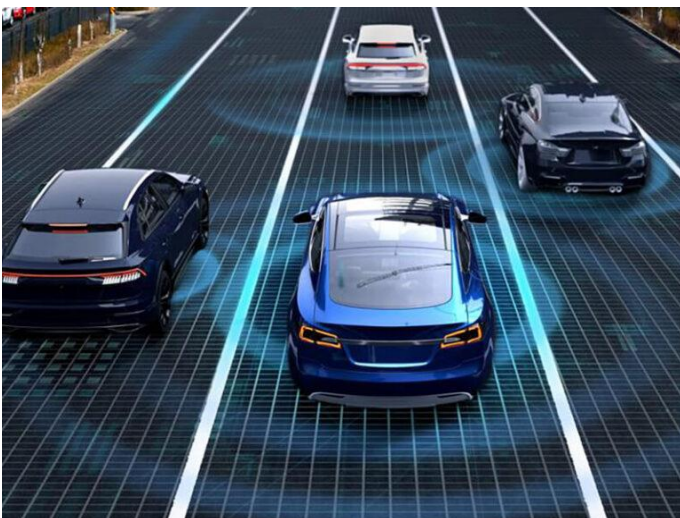
Products Range

Model	Product Name	Grade	Thickness	Infrared Transmittance
UVFPC-IRT-700-N	IRT Polycarbonate	Normal	0.5mm, 0.8mm, 1mm, 1.2mm, 1.5mm	>88% (780~1100nm)
UVFPC-IRT-700-SR	IRT Polycarbonate	Scratch Resistant	0.5mm, 0.8mm, 1mm, 1.2mm, 1.5mm	>88% (780~1100nm)

Physical Properties

Properties	Testing Method	Unit	Value
Standard Threshold Value	N/A	Nanometer	700
(Standard product)			
Infrared Transmission	1mm thickness;	%	>88
	850 to 1100 nm;		
Visible Light Transmission	1mm thickness;	%	<1
	400 to 700 nm;		
Refractive Index	ASTM D542		1.59
Melt Index	ASTM D1238	g/10 min	10 (300°C/5.0KG)
Density	ASTM D792	g/cm ³	1.2
Water absorption, 24H	ASTM D570	%	0.5-0.7
Notch impact strength	ASTM D256	J/M	80
Tensile Strength at Break	ASTM D638	MPa or N/mm ²	>630
Elongation at break	ASTM D638	%	100
HDT, 1.82MPa, 6.4mm	ASTM D648	°C	125
Hot deformation temperature 1.80 MPa annealing	ISO 75-2/A	°C	132
Flammability	UL94	/	V-2
Surface hardness (Normal grade)	750g		2B
Surface hardness (Scratch Resistant Grade)	750g		HB

Applications





CONTACT US

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