

Trizod™ OP UltraPure White

Press-polished Opaque White Polycarbonate Plate

Product Description

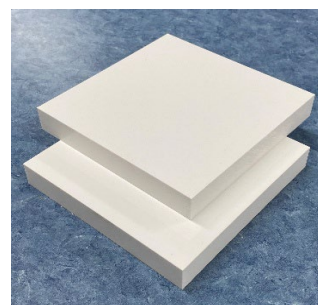
Trizod™ OP UltraPure White, is a White Opaque ultraviolet-stabilized polycarbonate sheet. Trizod™ OP UltraPure White is designed for applications requiring, excellent impact strength, and UV resistance and color consistency. It also offers improved flammability performance over General Purpose PC. Its UL94 flammability rating is V2 at a thickness of 1.5 mm (0.059"). Trident's proprietary annealing process improves characteristics such as strength, chemical resistance, and increases dimensional stability over a wide temperature range which allows extensive machining to ensure tight tolerances.

Characteristics

- Excellent impact resistance
- Excellent dimensional stability
- Excellent optical clarity
- Good electrical properties
- Good heat resistance
- UL flame rated

Applications

- Windows
- Site glasses
- Machine guards
- Manifolds
- Instrument components
- Control panels



General

Annealed Plate: .250 through 1.00" thick Plate sizes: 24x48 • 48x96

Press-polished Finish • 4 mil Adhesive PE Film Masked

Agency ratings: ASTM D3935 PC0136

Standard color: Opaque White

Physical	Nominal Value	Unit	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.043	lb/in ³	1.200	g/cm ³	ASTM D1505
Water Absorption, Immersion at 73°F (23°C):					ASTM D570
24 Hours	0.12	%	0.12	%	
Equilibrium	0.30	%	0.30	%	
Mechanical	Nominal Value	Unit	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9000	psi	62	Mpa	ASTM D638
Tensile Elongation (Break)	115	%	115	%	ASTM D638
Tensile Modulus	350000	psi	2415	Mpa	ASTM D638
Flexural Stress at 5% strain	12000	psi	83	Mpa	ASTM D790
Flexural Modulus	335000	psi	2312	Mpa	ASTM D790
Impact	Nominal Value	Unit	Nominal Value	Unit	Test Method
Notched Izod Impact at .125"	18	ft-lb/inch	961	J/m	ASTM D256
Hardness	Nominal Value	Unit	Nominal Value	Unit	Test Method
Rockwell Hardness	112	R scale	112	R scale	ASTM D785
	70	M scale	70	M scale	ASTM D785

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Thermal	Nominal Value Unit	Nominal Value Unit	Test Method
Deflection Temperature 66 psi	279 °F	137 °C	ASTM D648
Deflection Temperature 264 psi	269 °F	132 °C	ASTM D648

Flammability	Nominal Value Unit	Nominal Value Unit	Test Method
Flammability Rating	V2 @ .059	V2 @ .059	UL94

Chemical Resistance

Trizod™ OP Optical Grade Polycarbonate

Acetone	Not resistant	Hydrochloric acid, aqueous solution 36'	Limited Resistance
Ammonia solution 10%	Not resistant	Hydrofluoric acid, 10%	Resistant
Benzene	Not resistant	Isopropanol	Resistant
Boric acid, aqueous solution 10%	Resistant	Methanol	Not resistant
Diesel oil	Resistant	Nitric acid, aqueous solution 10%	Resistant
Ethanol, 96%	Limited Resistance	Silicone Oil	Resistant
Ethylene chloride	Not resistant	Sulphuric acid, aqueous solution 2%	Resistant
Formaldehyde, aqueous solution 30%	Resistant	Sulphuric acid, concentrated 98%	Not resistant
Glycerin	Resistant	Triethanolomine	Not resistant
Glycol	Resistant	Trichloroethylene	Not resistant

* This information is based on average resin value specifications and is only to assist and advise you on the current technical knowledge, it is given without obligations or liability.

Standard sizes and approximate weight (lbs) per sheet

Thickness	Lbs / Sq Ft	24 x 48	48 x 48	48 x 72	48 x 96	Thickness Range
.250"	1.69	14	27	41	54	.250" - .275"
.354"	2.39	19	38	57	76	.299" - .330"
.375"	2.53	20	41	61	81	.375" - .420"
.500"	3.38	27	54	81	108	.500" - .550"
.625"	4.22	34	68	101	135	.625" - .700"
.708"	4.78	38	76	115	153	.708" - .750"
.750"	5.06	41	81	122	162	.750" - .825"
.875"	5.91	47	95	142	189	.875" - .944"
1.00"	6.75	54	108	162	216	1.00" - 1.100"
1.125"	7.59	61	122	182	243	1.125" - 1.180"
1.25"	8.44	68	135	203	270	1.250" - 1.370"