

# STEREOLITHOGRAPHY

# PC-LIKE TRANSLUCENT



## Product Description

PC-Like Translucent is ideal for parts with fine details that require translucence and high stiffness. Custom finishing is required to achieve functional clarity. It has a high tensile strength and modulus, making it ideal for prototyping parts similar to molded polycarbonate. PC-Like Translucent is an ideal material for polycarbonate-like parts when thermal properties are not required.

## Applications

PC-Like Translucent is often used for prototyping electronic housings, medical devices, and lighting components.



## Key Product Benefits

- ▶ Functional Clarity
- ▶ High tensile strength and modulus
- ▶ Enhanced feature details

## Tolerances

For well-designed parts, tolerances in the X/Y dimension of  $\pm 0.002$  in. (0.05mm) for the first inch plus  $\pm 0.001$  in./in., and Z-dimension tolerances of  $\pm 0.005$  in. (0.127mm) for the first inch plus  $\pm 0.001$  in./in. (0.001mm/mm), can typically be achieved. Note that tolerances may change depending on part geometry.

## Properties

Property	Test Method	Value
Color	-	Translucent with Standard Finish / Clear with Custom Finish
Density in solid state*	@ 25 °C (77 °F)	1.21 g/cm <sup>3</sup>
E-module (x-y plane)	ASTM D638, test speed 10mm/min	3,500 $\pm$ 400 MPa
Tensile strength (x-y plane)	ASTM D638, test speed 10mm/min	75 $\pm$ 10 MPa
Elongation at break (x-y plane)	ASTM D638, test speed 10mm/min	7 $\pm$ 4%
Heat deflection temperature @ 0.46 MPa*	ASTM D648	53 - 55 °C (127 - 131 °F)
Heat deflection temperature @ 1.82 MPa*	ASTM D648	48 - 50 °C (118 - 122 °F)

\* From supplier data sheet