

STEREOLITHOGRAPHY

PP-LIKE TRANSLUCENT WHITE



Product Description

PP-Like Translucent White is translucent in appearance. It's also the most flexible stereolithography material available with a flexural modulus of 1,600 MPa. Its mechanical properties are similar to the average values of injection-molded polypropylene except for a slightly lower elongation at break.

Applications

PP-Like Natural is often used for medical device prototypes, electrical casings, fluid flow analysis parts, and automotive components.

Key Product Benefits

- ▶ Translucent
- ▶ Semi-flexible
- ▶ Enhanced feature details

Tolerances

For well-designed parts, tolerances in the X/Y dimension of ± 0.002 in. (0.05mm) for the first inch plus ± 0.001 in./in., and Z-dimension tolerances of ± 0.005 in. (0.127mm) for the first inch plus ± 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	-	White
Density in solid state*	@ 25 °C (77 °F)	1.13 g/cm ³
Water absorption (20 °C, 50% relative humidity)	ASTM D570	-
E-module (x-y plane)	ASTM D638, test speed 10mm/min	1,600 \pm 300 MPa
Tensile strength (x-y plane)	ASTM D638, test speed 10mm/min	35 \pm 5 MPa
Elongation at break (x-y plane)	ASTM D638, test speed 10mm/min	25 \pm 5%
Heat deflection temperature @ 0.46 MPa*	ASTM D648	61 °C (142 °F)
Heat deflection temperature @ 1.82 MPa*	ASTM D648	52 °C (126 °F)

* From supplier data sheet