STEREOLITHOGRAPHY

ABS-LIKE TRANSLUCENT/CLEAR

Current Supplier Material: WaterShed XC 11122

PRODUCT DESCRIPTION

ABS-Like Translucent/Clear offers a unique combination of low moisture absorption and near-colorless transparency. Custom finishing is required to achieve functional clarity. Its tensile strength and elongation at break are among the highest of 3D-printed, thermoset materials.

APPLICATIONS

ABS-Like Translucent/Clear can be used for general-purpose applications but is ideal for flow-visualization models, microfluidics, and light pipes.

KEY PRODUCT BENEFITS

- Functional clarity
- Water resistant

PROPERTIES

PROPERTY	TEST METHOD	VALUE
Color	-	Translucent with Standard Finish / Clear with Custom Finish
Density in solid state*	@ 25 °C (77 °F)	1.12 g/cm³
Water absorption (20 °C, 50% relative humidity)	ASTM D570	0.35 ± 0.15%
E-module (x-y plane)	ASTM D638, test speed 10mm/min.	2,900 ± 400 MPa
Tensile strength (x-y plane)		55 ± 10 MPa
Elongation at break (x-y plane)		6 ± 3%
Heat deflection temperature @ 0,46 MPa*	ASTM D648	45.9 - 54.5 °C (115 - 130 °F)
Heat deflection temperature @ 1,82 MPa*		49.0 - 49.7°C (120 °F)

*From supplier data sheet

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.

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CHINA METAL PARTS, CORP.