

HD CLEAR

Photopolymer Resin for B9 Core & Elite Series

Material Properties

Prepared: 04.26.2024



The ultimate solution for crafting high-precision parts with translucency and clarity. HD Clear delivers exceptional accuracy, allowing you to create parts with a smooth, translucent surfaces. Through polishing or coating techniques, your parts can be made fully transparent and appear glass-like.

Precision is paramount with HD Clear. With the B9 Elite Micro, delve into the realm of micro features with confidence, as HD Clear boasts the ability to reproduce intricate details with astonishing accuracy. Marvel at channel diameters as delicate as 100-350µm, vertical wall thicknesses as fine as 30µm, and self-supporting overhangs of up to 75°.

Elevate your projects to new heights with HD Clear. Experience the fusion of precision, translucency, and clarity like never before, and witness your visions come to life in stunning detail.

	METRIC	IMPERIAL	METHOD
TENSILE PROPERTIES			
Tensile Strength	30.1 MPa	4365 psi	ASTM D638-22
Tensile Modulus	1350 MPa	195.8 ksi	ASTM D638-22
Elongation	5.18%	5.18%	ASTM D638-22
FLEXURAL PROPERTIES			
Flexural Strength	41.8 MPa	6062.6 psi	ISO 178 (2019)
Flexural Modulus	1430 MPa	207.4 ksi	ISO 178 (2019)
TEMPERATURE PROPERTIES			
Heat Deflection Temp @ 1.80 MPa	41 °C	105.8 °F	ISO 75-1, ISO 75-2 (2020)
Heat Deflection Temp @ 0.45 MPa	50 °C	122 °F	ISO 75-1, ISO 75-2 (2013)

*All results were from models cured for 5 minutes.