

Clear, Tough and Durable parts - LOCTITE 3D IND405 - The Toughest Clear Resin, on Carbon's reliable, consistent 3D printing platform*

LOCTITE[®] 3D IND405 CLEAR is a semi rigid, high elongation and high toughness one-part material with excellent clear properties.

Stiffness combined with toughness makes this material ideal for a wide variety of tools in the production floor, including:

- Dies or manufacturing aids
- Housings
- Small kitchen appliances
- Consumer packaging prototyping
- Consumer goods prototypes



LOCTITE[®] 3D IND405 Clear parts printed with the Carbon DLS process (post-processed parts courtesy ProtoCAM).

*based on publicly available data sheets from other leading DLP/SLA clear resins

Clear resin with functional toughness, easy to print on Carbon's reliable, consistent platform

LOCTITE® 3D IND405 Clear fulfills the need of a robust, clear and easy to print material. Together with Carbon, we are providing a one-part resin which has a frosted clear finish, high-elongation and best-in-class toughness.



Benefits

- Clear
- Outstanding surface finish
- Tough
- High impact resistance with high elongation
- Durable
- Easy to print (one-part material)

Mechanical Properties

42 MPa	1500 MPa	120%	50 J/m	53 °C
Tensile Strength at Break	Young's Modulus	Elongation at Failure	Impact Strength	Heat Deflection Temperature @ 0.455 MPa
2%		1.17		
Water absorption		Refraction Index		

Applications

	
Jigs & Fixtures	Fluid routing prototypes
Aluminium sheet forming tool requiring high strength, ductility, and moderate heat resistance	Transparent fluid routing prototype with internal threads requiring clear finish, high strength, and accuracy for direct assembly

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