

HT 31

High Temp Resin

HT 31 is a hard, heat-resistant PEEK-like material with HDT of 275°C. It exhibits excellent long-term stability and dimensional stability at temperatures exceeding 100°C, and is suitable for prototypes and end-use parts that withstand high temperatures, as well as rapid molds for plastic molding.



High Temp Resistant



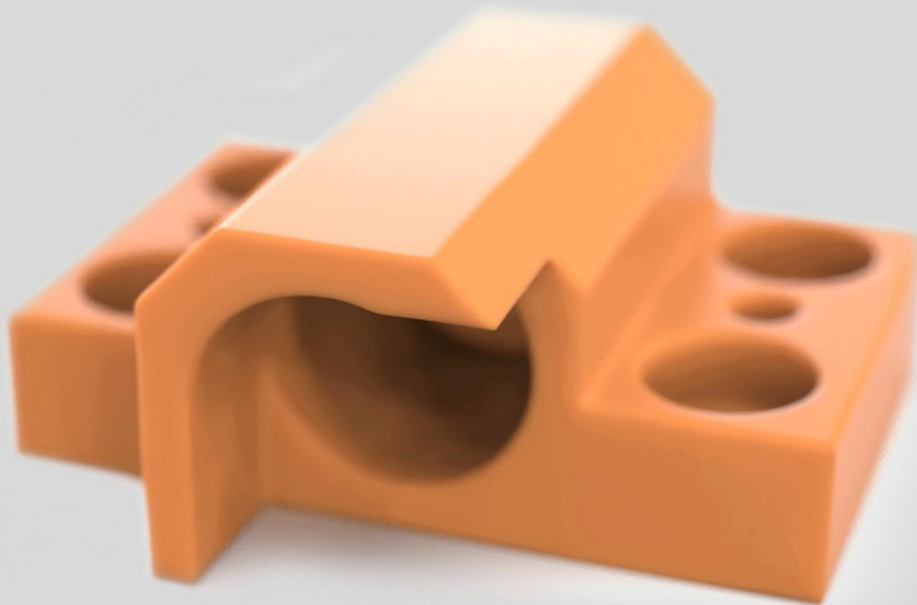
High Stiffness



Accurate



Finish Surface



Orange

US

940 Old County Rd, Belmont, CA, 94002, USA

MAT #HT312101-01 Rev1.0

HT 31 Technical Data Sheet :

Tensile Properties, ASTM D638		Metric	U.S.
Tensile Modulus		4028 MPa	584.2 ksi
Ultimate Tensile Strength		51 MPa	7.4 ksi
Elongation at Break		1.55 %	1.55 %
Impact Properties		Metric	U.S.
Notched Izod (Machined), 23°C, ASTM D256		18.71 J/m	0.35 ft-lbf/in
Notched Izod (Machined), 23°C, ISO 180/A		2.38 kJ/m ²	1.13 ft-lb/in ²
Flexural Properties, ASTM D790		Metric	U.S.
Flexural Strength		110 MPa	16 ksi
Flexural Modulus		4532 MPa	657.3 ksi
Thermal Properties, ASTM D648		Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi, ASTM D648		104.5 °C	220.1 °F
Heat Deflection Temperature @ 1.82 MPa/264 psi, ASTM D648		275 °C	527 °F
General Properties		Metric	
Hardness, Shore D, ASTM D2240		94D	
Density (cured resin), ASTM D792		1.29 g/cm ³	
Density (liquid resin), ASTM D4052		1.19 g/cm ³	
Viscosity, 25°C, ASTM D2196		600 cps	
Water Absorption, 24 hours, 23°C, ASTM D570		0.57 %	
Water Absorption, Long Term (14 Days), ASTM D570		2.1 %	

These data are typical values and were determined through testing on printers which are validated for use with Luxcreo's products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. Luxcreo reserves the right to change material characteristics, and formulation without prior notification.