Formlabs Clear

Unspecified

Formlabs Inc.

Message:

Formlabs CLEAR resin produces strong plastic parts ideal for a wide variety of applications and is specifically designed to work with your Form 1+ 3D Printer. This material can be easily painted, and when the surface is finished or coated, produces a highly clear part. Upon post-cure, tensile strength and stiffness exceeds that of injection-molded or 3D-printed ABS.

General Information			
Features	Rigid, good Sprayable Good strength Definition, high		
Appearance	Clear/transparent		
Forms	Liquid		
Processing Method	stereolithography		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ASTM D638
-- [1]	2700	MPa	ASTM D638
-- [2]	1300	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield [3]	61.5	MPa	ASTM D638
Yield [4]	29.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Fracture [5]	5.0	%	ASTM D638
Fracture [6]	20	%	ASTM D638
Flexural Modulus			ASTM D790A
-- [7]	2380	MPa	ASTM D790A
-- [8]	970	MPa	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-- [9]	29	J/m	ASTM D256
-- [10]	22	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed [11]	78.0	°C	ASTM D648
0.45 MPa, not annealed [12]	52.0	°C	ASTM D648
1.8 MPa, not annealed [13]	60.0	°C	ASTM D648
1.8 MPa, not annealed [14]	47.0	°C	ASTM D648
Additional Information			

Material properties can vary with part geometry, print orientation, print settings and temperature.

NOTE	
1.	After exposing green parts to 15 J/cm² of UV light.
2.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
3.	After exposing green parts to 15 J/cm² of UV light.
4.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
5.	After exposing green parts to 15 J/cm² of UV light.
6.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
7.	After exposing green parts to 15 J/cm² of UV light.
8.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
9.	After exposing green parts to 15 J/cm² of UV light.
10.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
11.	After exposing green parts to 15 J/cm² of UV light.
12.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.
13.	After exposing green parts to 15 J/cm² of UV light.
14.	Data was obtained from green parts, printed using 50 µm Clear settings, without additional treatments.

Recommended distributors for this material

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