



3D PRINTING MATERIALS

Photopolymer Solutions for Everyone...

Colorado Photopolymer Solutions provides custom 3D printing formulations for UV-3D printing platforms.

Ember-DLP Material

Product	Viscosity (cPs)	Modulus (mPa)	Postcured Properties		Shore Hardness
			Strength (mPa)	Elongation (%)	
Prototyping Resins					
<i>These resins reliably and repeatably produce high quality prints with excellent positive and negative resolution. Colors can be mixed to create custom shades and extend PDMS vat lifetimes.</i>					
PR48	400	1400	28	3	85 D
PR57 CMYK+W	400	1400	28	3	85 D
Investment Casting Resins					
<i>Investment Casting resins reliably and repeatably produce high quality parts with excellent positive and negative resolution. Pieces made with these resins burnout cleanly and handle well.</i>					
IC131	90	400	4	4	73 D
IC142	200	550	20	3	75 D
Specialty Materials					
<i>Specialty Materials are formulated to produce parts with a variety of strengths and flexibility. These resins are ideal for items including gaskets or snap fit parts</i>					
SM412	900	7	7	150	70 A
SM442	2000	400	17	80	83 A
SM472	600	800	40	40	44 D (100 A)

Desktop SLA Materials

Product	Viscosity (cPs)	Modulus (mPa)	Postcured Properties		Shore Hardness
			Strength (mPa)	Elongation (%)	
Modeling Resins					
<i>These materials are excellent for dental modeling applications. DMG is available in gray and DMT is available in tan. Both resins print well on Form2 in open mode, Gray V4.</i>					
DMG-301	1510	730	32	13	82 D
DMT-301	710	1270	58	5	86.5 D
Investment Casting Resins					
<i>IC163 is an orange investment casting resin that handles well and burns out cleanly. IC163 prints well on Form2 in open mode, Gray V4</i>					
IC163	200	610	24	5.1	84 D
Specialty Materials					
<i>HT511 is a high temperature resin with an HDT of 97 °C. This material prints on Form2 in open mode, Gray V4. More materials coming soon!</i>					
HT511	640	1040	45	5.6	86 D

LCD Materials

Product	Viscosity (cPs)	Modulus (mPa)	Postcured Properties		
			Strength (mPa)	Elongation (%)	Shore Hardness
Prototyping Resins					
<i>These prototyping materials are tuned to print on LCD printers with low light intensity in 5-7 seconds for model layers. These resins feature good pigment depth and good positive and negative resolution.</i>					
PR221-LCD	700	1100	50	6	86.5 D
DMT-301-LCD	710	1270	58	5	86.5 D
PR221-Glitter	700	1100	50	6	86.5 D
Investment Casting Resins					
<i>IC163 is an orange investment casting resin that handles well and burns out cleanly. IC163 prints well on LCD printers with low light intensity, with Model layers curing in 7 seconds.</i>					
IC163-LCD	200	610	24	5.1	82 D
Specialty Materials					
<i>HT511 is a high temperature resin great for modeling applications. HT511 prints well on LCD printers with low light intensity, with Model layers curing in 7 seconds. More materials coming soon!</i>					
HT511-LCD	640	1040	45	5.6	85 D

Large Format SLA Materials

Product	Viscosity (cPs)	Modulus (mPa)	Postcured Properties		
			Strength (mPa)	Elongation (%)	Shore Hardness
These materials are tuned to print on Viper printers. These materials feature excellent resolution and low shrinkage.					
Prototyping Resins					
Investment Casting Resins					
Specialty Materials					

Coming Soon!

Ask us about a custom formulation for your
3D printing application



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