



Acme 3D printing resins

An open system of 3D printing materials for DLP/LCD printers





ACME MODEL



Acme Model is a Light-curing resin with high precision , super hardness and durability, which provides the models with highly visual details ,ideal surface results and more than 10 months durability.

Compatible with 405 um DLP/LCD printers and Available in gary and yellow.

FEATURES

- 1.High visual details of margins and tooth anatomy.
- 2.Ideal surface results for scan impressions.
- 3.Super hardness and long durability of more than 10 months.
- 4.Lower viscosity enable the material is easier to level and clean.

LIQUID PROPERTIES

Appearance	Grey	Yellow		
Density	1.13	1.175	g/cm ³	@ 24 °C
Viscosity	180-250	721	cps	@ 24 °C
Dp	0.110	0.122	mm	
Ec	8.3	9.3	mJ/cm ²	
Building layer thickness	0.025-0.1	0.025-0.10	mm	

CURED PROPERTIES

Hardness	70	85	Shore D
Flexural modulus	1770-2375	2772-2880	MPa
Flexural modulus	63-80	60-70	MPa
Tensile modulus	1869-2699	1800-2060	MPa
Tensile strength	28-35	23-28	MPa
Elongation at break	10-15	10-13	%
Impact strength,notched Izod	60-75	45-52	J/m
Heat deflection temperature	100	100	°C
Glass transition	125	109	°C
Coefficient of thermal expansio	97*E-6	96.5E-6	g/°C
Density	1.19	1.145	g/cm ³ 12
Volume shrinkage	3.56-3.95	0.8-1.1	%



ACME SURGICAL GUIDE



Acme Surgical Guide is a Light-curing transparent resin with high precision, biocompatibility and good mechanical strength, which enables the surgical guides are perfectly fit the surgical needs and easy to insert drill sleeves. Compatible with 405 um DLP/LCD printers and suitable for autoclaving and wet sterilization.

By taking advantage of Acme CAD design service, you can fabricate surgical guides of all kinds varying from single unit quadrants to full-arch multi-unit implant guides.

FEATURES

1. Biocompatible ,Non-toxic and odorless.
2. High flexural strength and flexural modulus.
3. Dimensionally stable.
4. Suitable for autoclaving and wet sterilization.

LIQUID PROPERTIES

Appearance	Transparency		
Density	1.110	g/cm ³	@ 24 °C
Viscosity	500	cps	@ 24 °C
Dp	0.152	mm	
Ec	9.4	mJ/cm ²	
Building layer thickness	0.025-0.10	mm	

CURED PROPERTIES

Hardness	50	Shore D
Flexural modulus	3100-3500	MPa
Flexural modulus	60-70	MPa
Tensile modulus	1800 - 2060	MPa
Tensile strength	23-28	MPa
Elongation at break	10-13	%
Impact strength,notched Izod	45-52	J/m
Heat deflection temperature	100	°C
Glass transition	109	°C
Coefficient of thermal expansion	96.5*E-6	g/°C
Density	1.145	g/cm ³ 12
Volume shrinkage	1.5-2.5	%



ACME TEMPORARY



Acme Temporary is a Light-curing resin with super high hardness and long durability which allows you to fabricate biocompatible long-lasting temporary restorations for all indications including edentulous. Compatible with 405 um DLP/LCD printers and available in A1 and A2 shades.

FEATURES

- 1.Super high hardness.
- 2.Long durability of more than 3 months.
- 3.High opacity and good visual details.
- 4.Biocompatible ,Non-toxic and odorless.

LIQUID PROPERTIES

Appearance	A2		
Density	1.155	g/cm ³	@ 24 °C
Viscosity	480-660	cps	@ 24 °C
Dp	0.162	mm	
Ec	9.3	mJ/cm ²	
Building layer thickness	0.025-0.10	mm	

CURED PROPERTIES

Hardness	81-86	Shore D
Flexural modulus	2272-2480	MPa
Flexural modulus	75-98	MPa
Tensile modulus	2179 - 2398	MPa
Tensile strength	38-62	MPa
Elongation at break	2-2.8	%
Impact strength,notched Izod	58-70	J/m
Heat deflection temperature	100	°C
Glass transition	102	°C
Coefficient of thermal expansion	95*E-6	g/°C
Density	1.19	g/cm ³ 12
Volume shrinkage	2.1-2.96	%



ACME ORTHO



Acme Ortho is a Light-curing transparent resin with high precision, high break resistance and flexibility which makes the splints and retainers clear aesthetic and long durability of more than 10 months. Compatible with 405 um DLP/LCD printers and available in clear color.

FEATURES

- 1.Long durability of more than 10 months.
- 2.High break resistance and flexibility.
- 3.Biocompatible ,Non-toxic and odorless.

LIQUID PROPERTIES

Appearance	Yellow		
Density	1.175	g/cm ³	@ 24 °C
Viscosity	800	cps	@ 24 °C
Dp	0.120	mm	
Ec	9.2	mJ/cm ²	
Building layer thickness	0.05-0.10	mm	

CURED PROPERTIES

Hardness	85	Shore D
Flexural modulus	2772- 2980	MPa
Flexural modulus	65-78	MPa
Tensile modulus	2179-2450	MPa
Tensile strength	28-35	MPa
Elongation at break	5-9	%
Impact strength,notched Izod	58-70	J/m
Heat deflection temperature	95	°C
Glass transition	112	°C
Coefficient of thermal expansion	96*E-6	g/°C
Density	1.2	g/cm ³ 12
Volume shrinkage	1.5- 4.69	%



ACME RUBBER SUPPORT



Acme Rubber Support is a Light-curing resin with high precision, easy to polish and excellent mechanical properties, which provides the denture bases with accurate results and outstanding dimensional stability. Compatible with 405 um DLP/LCD printers and suitable for autoclaving and wet sterilization.

FEATURES

- 1.High strength and toughness, good mechanical properties.
- 2.Biocompatible ,Non-toxic and odorless.
- 3.Lower viscosity enable the material is easier to level and clean.

LIQUID PROPERTIES

Appearance	Skin color		
Density	1.05-1.25	g/cm ³	@ 24 °C
Viscosity	120-2800	cps	@ 24 °C
Dp	0.150	mm	
Ec	9.4	mJ/cm ²	
Building layer thickness	0.025-0.15	mm	

CURED PROPERTIES

Hardness	50	Shore D
Flexural modulus	3100-3500	MPa
Flexural modulus	60-70	MPa
Tensile modulus	1800 - 2360	MPa
Tensile strength	42-62	MPa
Elongation at break	10-13	%
Impact strength,notched Izod	44-49	J/m
Heat deflection temperature	80	°C
Glass transition	100	°C
Coefficient of thermal expansion	95*E-6	°C
Density	1.05-1.25	g/cm ³ 12
Volume shrinkage	1.56- 1.9	%



ACME GINGIVAL



Acme Gingiva is a Light-curing resin with excellent elasticity and tear resistance, which can be used in combination with the Acme model materials when a natural gum tissue is needed in the implant models.

Compatible with 405 um DLP/LCD printers and available in pink color.

FEATURES

- 1.Excellent Tear Resistance.
- 2.Flexible and easy to trim.
- 3.Biocompatible ,Non-toxic and odorless.

LIQUID PROPERTIES

Appearance	pink		
Density	1.11	g/cm ³	@ 24 °C
Viscosity	1159	cps	@ 24 °C
Dp	0.202	mm	
Ec	0.8	mJ/cm ²	
Building layer thickness	0.025-0.1	mm	

CURED PROPERTIES

Hardness	60	Shore D
Flexural modulus	1500-2100	MPa
Flexural modulus	25-30	MPa
Tensile modulus	850-1000	MPa
Tensile strength	4.5-6.2	MPa
Elongation at break	42-50	%
Impact strength,notched Izod	42-50	J/m
Heat deflection temperature	89	°C
Glass transition	104	°C
Coefficient of thermal expansion	97*E-6	g/°C
Density	1.145	g/cm ³ 12
Volume shrinkage	2.1-3.3	%



ACME CASTING



Acme Casting is a Light-curing resin with low shrinkage ,easy burn out and residue-free, which suits for all kinds of purposes. Whether you need a support structure, a frame or orthodontic devices.

Compatible with 405 um DLP/LCD printers and available in dark green color.

FEATURES

- 1.Low shrinkage for more precise casting.
- 2.Easy burn out and residue-free.
- 3.Compatible with all dental metals.

LIQUID PROPERTIES

Appearance	green		
Density	1.05-1.14	g/cm ³	@ 24°C
Viscosity	90	cps	@ 24°C
Dp	0.1	mm	
Ec	9.3	mJ/cm ²	
Building layer thickness	0.025-0.05	mm	

CURED PROPERTIES

Hardness	80	Shore D
Flexural modulus	1700-2180	MPa
Flexural modulus	50-59	MPa
Tensile modulus	2179-25398	MPa
Tensile strength	42-46	MPa
Elongation at break	9-14	%
Impact strength,notched Izod	42-49	J/m
Heat deflection temperature	89	°C
Glass transition	102	°C
Coefficient of thermal expansion	96*E-6	g/°C
Density	1.15	g/cm ³ 12
Volume shrinkage	0.8-1	%