Introduction to TrinDy, Strengths of TrinDy Model

■ 5 advantage of TrinDy Model

1. Heat Resistance
2. Moisture Resistance
3. Shape Retention
4. Particle Sedimentation Stability
5. Color stability in storage

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1. Heat Resistance

☑ Superior heat resistance works for…

- **Thermoforming of Splints / Mouthguards: General Temp. 80-120℃ / 176-248℉**

*Post cure with OtoFlash 2000x2

	TrinDy Model	Company M	Company A	Company K
Tg (Glass Transition temperature) Test Method – TG DTA	**127℃** **260.6℉**	108℃ 226.4℉	80℃ 176℉	89℃ 192.2℉

☑ **The best and enough heat resistance for Thermoforming**

☑ **No adhesion with Splint/Mouthguards.**

☑ **Less deforming .**

*Post cure with OtoFlash 2000x2

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2. Moisture Resistance

☑ High moisture resistance contributes in …

- **Work with humid condition and material, like mounting plaster of articulator**

Products	Flexural Properties in Room Temp. (ISO178)		**In Water** (ISO20795-1)	Change Rate
TrinDy Model	Modulus (MPa)	2470	2250	**-9%**
	Strength (Mpa)	80	75	**-6%**
	Strain (%)	4	5	**10%**
Company M	Modulus (MPa)	2810(1900)**	1840	-35%
	Strength (Mpa)	98(68)**	59	-40%
	Strain (%)	6	5	-10%
Company A	Modulus (MPa)	1850	1110	-40%
	Strength (Mpa)	67	39	-42%
	Strain (%)	9	6	-34%
Company K	Modulus (MPa)	1850(>1940)*	1250	-32%
	Strength (Mpa)	65(>70)*	43	-34%
	Strain (%)	7	7	-7%

☑ **The lowest rate is a proof of stability.**

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3. Shape Retention

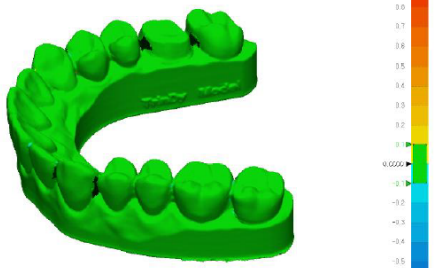
☑ Competent shape retention works for …

- **Cases for a long period of time such as implant models.**

■ **Evaluation Method**

1) Store printed models for 2 weeks in room temperature.
2) Scan the stored models and newly printed model, and compare their size digitally.

■ **Scan Result**



※Data shows the amount of digital point match within +/- 100um range.

Store Period	Print Scan Result	
	TrinDy Model	Company K
4 Days	99.9%	97.9%
1 week	99.9%	99.7%
2 weeks	99.9%	99.6%

☑ **TrinDy after 2 weeks 99.9% matches new printed model**

☑ **Excellent form retention**

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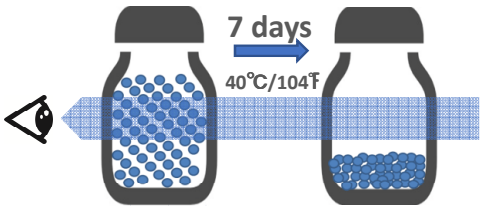
4. Particle Sedimentation Stability

☑ Remarkable Particle Sedimentation Stability is helpful for …

- **Less stirring and shaking before starting printing**

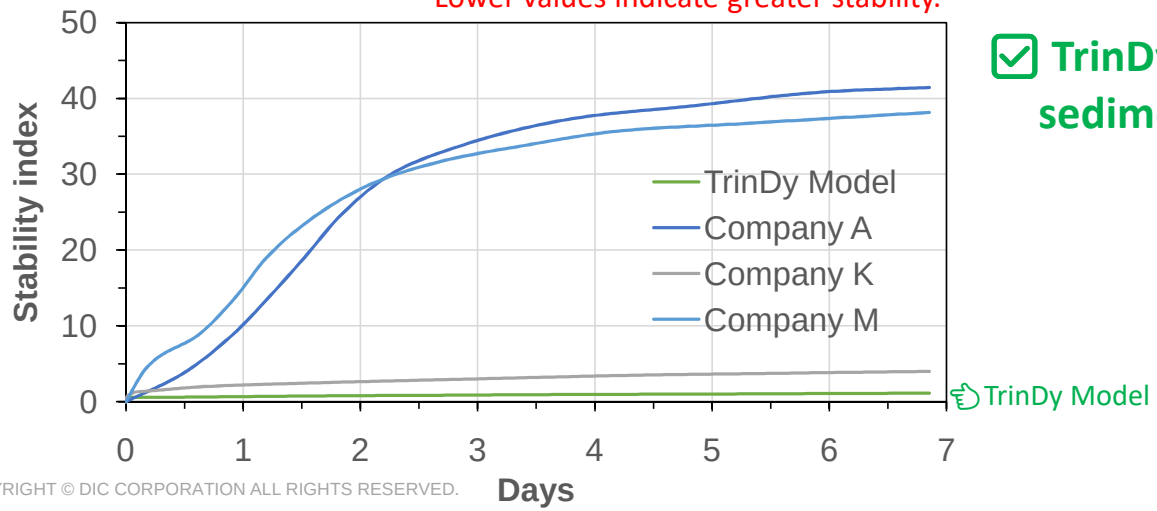


*Scan the particle volume.

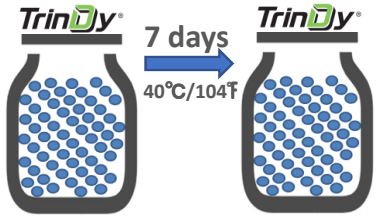
■ **Evaluation Method**
✓ Equipment：Turbiscan (Static Multiple Light Scattering (SMLS) - MICROTRAC)
✓ Test Condition：40℃/104℉ × 7Days

■ **Test Result**

*Lower values indicate greater stability.



☑ **TrinDy has the best performance in stability of sedimentation ⇒ Less stirring/shaking are OK**



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5. Color Stability

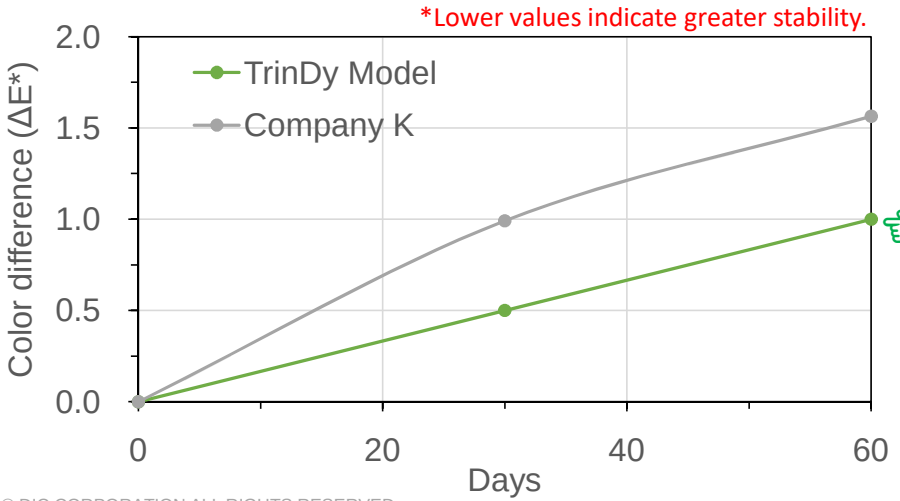
☑ Excellent color stability leads to…

- **Long Shelf Life**

■ **Evaluation Method**

1) Store TrinDy **in 60℃/140℉** for accelerated test
2) Measure “CIE lab value” after 0, 30 and 60 days. 30 and 60 days are equivalent with storage for 1 and 2 years in 25℃/77℉ condition.

■ **Test Result**



☑ **TrinDy has excellent discoloration resistance in storage.**

TrinDy Model

Introduction to TrinDy, Strengths of TrinDy Model

Summary

- 5 Advantages for your work

1) Heat Resistance	• Thermoforming
2) Moisture Resistance	• Work in humid condition
3) Shape Retention	• Suitable for long time use. (ex. Model for Implant case)
4) Particle Sedimentation	• Less stirring and shaking before use
5) Color Stability	• Long Shelf Life

☑ TrinDy Model is the almighty product brings you many advantages.