

RAYFORMTECH

PROFESSIONAL DENTAL MATERIALS

High-Performance Aligner Sheets

- REVOLUTIONARY FORGING TECHNOLOGY
- ADVANCED MULTI-LAYER STRUCTURE
- OPTIMIZED FOR ESTHETICS & BIOMECHANICS

ABOUT RAYFORM

Shenzhen RayForm Technology Co., Ltd. specializes in high-precision dental 3D printing systems and photopolymer resin materials. We provide an end-to-end digital production solution that covers equipment, materials, processes, and services.

Our company is certified to ISO 9001 quality management standards. Both our hardware and consumables comply with international regulations such as CE, FCC, and FDA.

With an annual production capacity of up to 150 million pieces, we house one of the world's largest production lines dedicated exclusively to aligner sheets.

WHY MULTI-LAYER?



Structural Integrity

Layering improves durability and structural strength, increasing resistance to wear and breakage.



Optimized Biomechanics

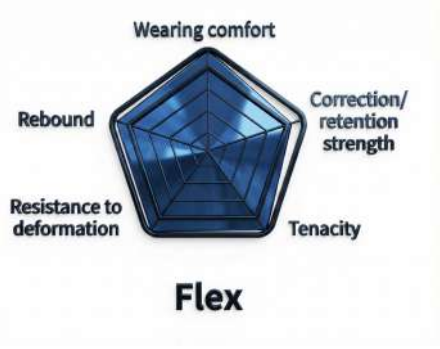
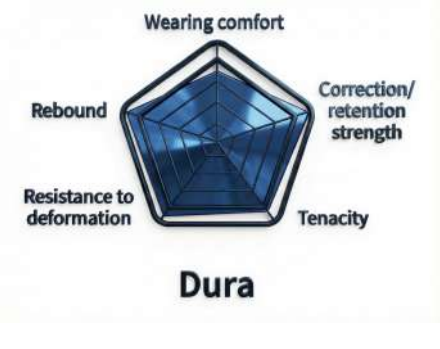

Customized properties provide flexibility and rigidity where needed for precise force application.



Patient Comfort

Achieves thinner yet stronger aligners, enhancing patient comfort without compromising effectiveness.

Product Series Overview

 <p>Flex</p>	<h3>RayForm FLEX Series</h3> <p>Made from multi-layer medical-grade material with high-performance elastomeric properties. It generates ideal initial force to gently move teeth, making it suitable for sensitive cases and children.</p> <ul style="list-style-type: none">• Production friendly: Easy to polish edges• High resilience maintains continuous force• Soft and comfortable fit <div><div>PETG+TPU MULTI-LAYER</div><div>USAGE: ATTACHMENTS / ALIGNERS</div></div>
 <p>Dura</p>	<h3>RayForm DURA Series</h3> <p>The perfect balance between rigidity and flexibility. DURA's multi-layer structure provides robust retention force while maintaining necessary elasticity to prevent breakage.</p> <ul style="list-style-type: none">• Superior fracture resistance• High structural integrity and wear resistance• Ideal for complex tooth movements <div><div>PETG+TPU MULTI-LAYER</div><div>USAGE: ALIGNERS / RETAINERS</div></div>
 <p>Clear</p>	<h3>RayForm CLEAR Series</h3> <p>Classic single-layer structure made of premium PETG material. It offers exceptional optical clarity and standard mechanical properties, making it an economic and effective choice.</p> <ul style="list-style-type: none">• High transparency for aesthetics• Excellent stain resistance• Standard force retention <div><div>PETG SINGLE-LAYER</div><div>USAGE: RETAINERS / TEMPLATES</div></div>

Technical Specifications

SERIES	MATERIAL	THICKNESS	SHAPE / SIZE	PACKAGING
Flex (Multi-layer)	PETG + TPU	0.50 mm	Round: Φ 125mm Square: 125x125mm	20 pcs/bag Foil Bag
		0.75 mm		
		1.00 mm		
Dura (Multi-layer)	PETG + TPU	0.50 mm	Round: Φ 125mm Square: 125x125mm	20 pcs/bag Foil Bag
		0.75 mm		
		1.00 mm		
Clear (Single-layer)	PETG	0.50 mm	Round: Φ 125mm Square: 125x125mm	220 pcs/bag Foil Bag
		0.75 mm		
		1.00 mm		

Performance Comparison (Dot Plot)



Force Decay Analysis

Stable Force Retention

Lower force decay rates indicate greater force stability, ensuring predictable tooth movement over the wear period. The graph shows the stress retention of RayForm materials over a 24-hour cycle.

