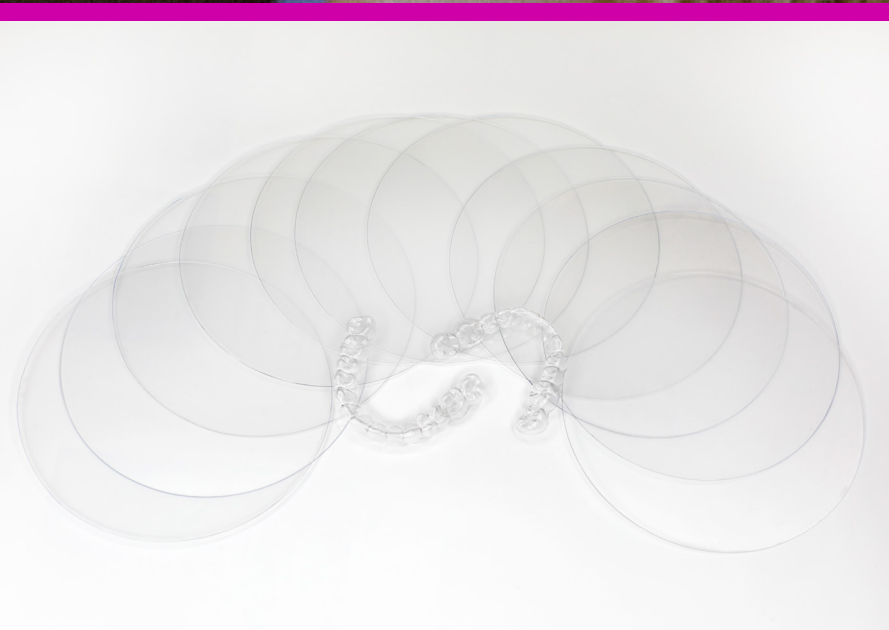


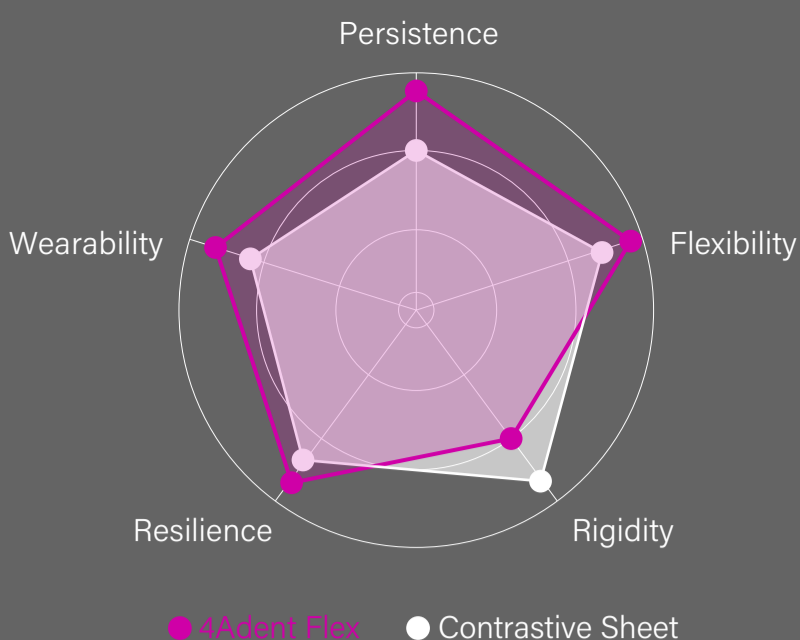
A revolutionary forging technology & structure for greater mechanical stability



4A DENT FLEX

4Adent Flex is made from multi-layer medical-grade Thermoplastic Polyurethane (TPU) material, technically designed for clear aligner and retainer applications. It features high-performance elastomeric properties that generate ideal initial force to gently move teeth, and high strength resiliency to maintain tooth movement. With superior wear performance, resiliency, and flexibility, 4Adent Flex is ultra-clear and stain resistant.





Its unique structure allows for greater versatility and high resilience, resistance to abrasion, and good compression set properties. It is tough and very durable, making it perfectly suitable for clear aligners applications.

- The result is superior patient comfort and more effective, predictable tooth movement.
- Superior wear performance, highly resilient, and flexible
- Ultra clear and stain resistant
- Easy to form and trim, excellent wear and impact resistance
- Used For: Occlusal Splints/Clear Aligners/Retainers/Dental Protectors

4ADENT DURA

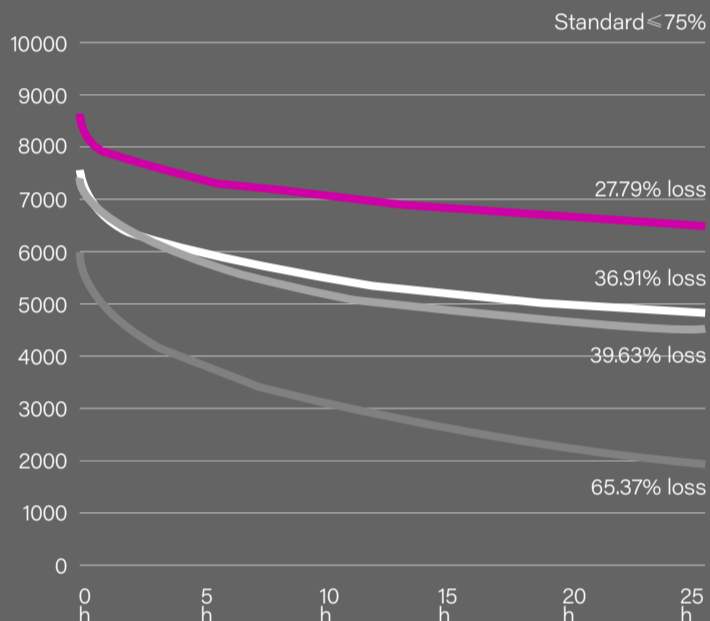
Appearance. Strength. Durability. Suitable for forming clear aligners. There are plenty of reasons to choose 4Adent Dura.

Modified hard-elastic transparent material made from PET-G, which is able to maintain a constant force level at a minimal loss of power. The flexible elastomer layer ensures high elasticity and break resistance while reducing initial force and increasing patient comfort. Also, it is effortlessly removed from models and trims with ease. Technicians and staff members will love the improved handling!



FORCE DECAY

● 4Adent / ● Brand Z single layer / ● Brand Z multiple-layers/ ● Brand H



Force decay

Under simulated oral temperature and controlled environmental conditions, a specific force is applied to the orthodontic appliance in order to induce a certain amount of elongation. The change in force is recorded after 24 hours of maintaining a constant elongation. The ratio of force reduction represents the force decay rate. Lower force decay rates indicate greater force stability.

EQUILIBRIUM

The integration of mechanical stability, material resilience and elasticity provides different and precise control for different tooth movement requirements.

STAIN-RESISTANCE

The new material makes the sheet resistant to staining and keeps transparency even in complex oral environments.

MECHANICAL STABILITY

The mechanically stable structure offers more uniform forces on the teeth and more efficiency for complex tooth movements.

BIOCOMPATIBILITY

Dura thermoplastic materials used in dental applications, including clear aligners, are typically biocompatible, meaning they are well-tolerated by oral tissues and pose minimal risk of adverse reactions or allergies.

RELIABLE CUSTOMER SUPPORT

High level of customer support we provide, including assistance with material selection, technical guidance, and responsive customer service.

VISUAL CLARITY

The inner layer uses a light-weakening design that effectively reduces the transmissivity and surface reflection of the sheet, making it more invisible and aesthetically pleasing for patients to use.

EASY HANDLING AND MANUFACTURING

Our thermoplastic materials are easy to handle and work with for dental professionals. It is ease of trimming, shaping, and adapting the material to create customized dental appliances.

DURABILITY AND TEAR RESISTANCE FOR LONG-TERM RETAINER USE

The strength of the sheet is significantly enhanced due to the modified integration structure.

Material Stiffness

Elasticity Modulus Flexural Modulus

Orthodontic Force

Yield Stress Yield Strain

Fracture Resistance

Elongation Break Tensile Strength

4Adent CLEAR	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
4Adent FLEX	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
4Adent DURA	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
D Brand	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
I Brand	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Z Brand	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Z Brand2	●●●●●	●●●●●	●●●	●●●●●	●●●●●	●●●●●

WHY 4A DENT

Empowering Dental Excellence, Transforming Smiles

4Adent specializes in the manufacturing of orthodontic raw materials, specifically aligner sheets. The organization has integrated state-of-the-art production equipment and comprehensive testing facilities, housing one of the world's largest production lines dedicated exclusively to dental aligner sheets. Presently, the facility features multiple fully automated production lines that cater to a variety of sheet types, including customized production options. This enables the manufacturing of PETG sheets, TPU sheets, and multi-layer sheets composed of composite materials, accommodating diverse thicknesses, sizes, and configurations. We meticulously executes automated and standardized production processes for aligner sheets, achieving an impressive annual production capacity of up to 150 million sheets.

