

# 3 KEY CONSIDERATIONS IN CHOOSING A DENTAL DEVICE MATERIAL

Dental device manufacturers shouldn't have to choose between ease of manufacturing and enhanced patient comfort when selecting a material for clear dental aligners, retainers, mouth guards and other dental and orthodontic products. The right material will offer the required performance characteristics and will have the support of a reliable, experienced partner from concept to production.



1

## TRUST EXPERIENCE

As a leading innovator in medical-grade thermoplastic polyurethanes (TPU), the technology behind the manufacture of common dental device materials, Lubrizol is a reliable material solutions provider. Our TPUs provide consistent and reliable performance and meet all requirements, making them the material of choice for many dental device applications.



2

## ASSESS MATERIAL PROPERTIES

Lubrizol Life Science Health's Isoplast® ETPU is a medical-grade, single-polymer solution with a unique combination of properties that make it ideal for dental devices such as invisible aligners and retainers. Properties include high tensile strength, optical clarity, chemical resistance, higher restorative force and process-ability. For a multi layer design, our medical-grade Pellethane® TPU is bondable and processable with other thermoplastics –including Isoplast–and is known for its strength, flexibility and stain resistance.



3

## SEEK A PARTNER, NOT JUST A SUPPLIER

Finding a total materials supplier is essential to bringing dental devices successfully to market. When you choose materials from Lubrizol Life Science Health, you get more than technology, performance and support throughout the entire dental device design and development life cycle. Our team also provides custom resin development; processing and testing capabilities; and material characterization.



FOR MORE INFORMATION AND RESOURCES, visit [our website](#) or [contact us](#) to be connected with our dental device experts.