

Product Portfolio • 2026

Thermoforming Material Portfolio

Six engineered sheets spanning every clinical application, from short-term trays to flagship precision appliances.



● QUICK

● DURAGEN

● FLEXGEN

● VECTOR

● DUALFORCE

● TRIFORCE

The Portfolio at a Glance

QUICK™ Fast / Short-term Crystal-clear PETG for fast turnaround on short-term trays and try-ins — easy to form, trim and finish. PETG 3,000 ₪	DURAGEN™ Stable / Rigid Rigid, dimensionally stable PCTG for everyday applications. PCTG 8,000 ₪	FLEXGEN™ Flexible / Elastic Optimised flexibility for aligners — maintains a light, consistent force for predictable tooth movement. PCTG 14,000 ₪
VECTOR™ Balanced / Versatile Medical grade TPU that conforms closely to the model, balancing patient comfort with reliable light force. TPU 17,000 ₪	DUALFORCE™ Layered / Hybrid Hard outer layer over a soft inner cushion, engineered for splints, guards and night-time wear. PCTG • TPU 18,100 ₪	TRIFORCE™ Premium / Multi-layer Flagship multi-layer construction for maximum durability and the longest fatigue life in the range. PCTG • TPU - PCTG 19,000 ₪

SHORT-TERM / TRAY MATERIAL

QUICK™

Fast / Short-term • PETG



PETG

3,000 Nf

Crystal-clear PETG for fast-turnaround work where production speed matters more than longevity.

- Brilliantly clear when formed
- Forms quickly at lower temperatures
- Easy to trim and finish
- Cost-effective for higher volumes
- Supplied with easy-peel protective film

IDEAL FOR

Splints

Whitening trays

Surgical guides

RETAINER MATERIAL

DURAGEN™

Stable / Rigid · PCTG



PCTG

8,000 Nf

Rigid, dimensionally stable PCTG engineered for dependable everyday retainers.

- Rigid and durable once formed
- Brilliantly clear and holds its shape
- Accepts bonding materials
- Resistant to staining & discolouration
- Maintains dimensional accuracy

IDEAL FOR

Retainers

Aligners

Splints

ALIGNER MATERIAL

FLEXGEN™

Flexible / Elastic · PCTG



PCTG

14,000 Nf

Optimised flexibility designed to hold a light, consistent force across aligner treatment.

- Optimised flexibility for tooth contact
- Resists heat deformation in the mouth
- Predictable tracking of tooth movement
- Impressive clarity for invisible aligners
- Highly resistant to staining

IDEAL FOR

Aligners

Retainers

Splints

COMFORT / GUARD MATERIAL

VECTOR™

Balanced / Versatile • TPU



TPU

17,000 Nf

Soft-touch TPU that conforms closely to the model for comfortable, resilient appliances.

- Soft occlusion for patient comfort
- Excellent impact strength
- Conforms closely to the model
- Brilliantly clear when formed
- Greater resistance to fracture

IDEAL FOR

Aligners

Retainers

Guards

DUAL-LAMINATE MATERIAL

DUALFORCE™

Layered / Hybrid • PCTG • TPU



PCTG • TPU

18,100 Nf

A hard outer layer over a soft inner cushion — engineered for demanding night-time wear.

- Hard, durable outer layer
- Soft inner layer for comfort
- Excellent impact strength
- Accepts bonding materials
- Built for long-term & bruxism wear

IDEAL FOR

Splints

Guards

Sleep appliances

PREMIUM MULTI-LAYER MATERIAL

TRIFORCE™

Premium / Multi-layer · PCTG · TPU



PCTG · TPU

19,000 Nf

Flagship multi-layer construction delivering maximum durability and the longest fatigue life in the range.

- Multi-layer PCTG · TPU build
- Longest fatigue life at 19,000 Nf
- Maximum force retention over wear
- Premium clarity and surface finish
- Suited to every clinical indication

IDEAL FOR

Aligners

Retainers

Splints

Guards

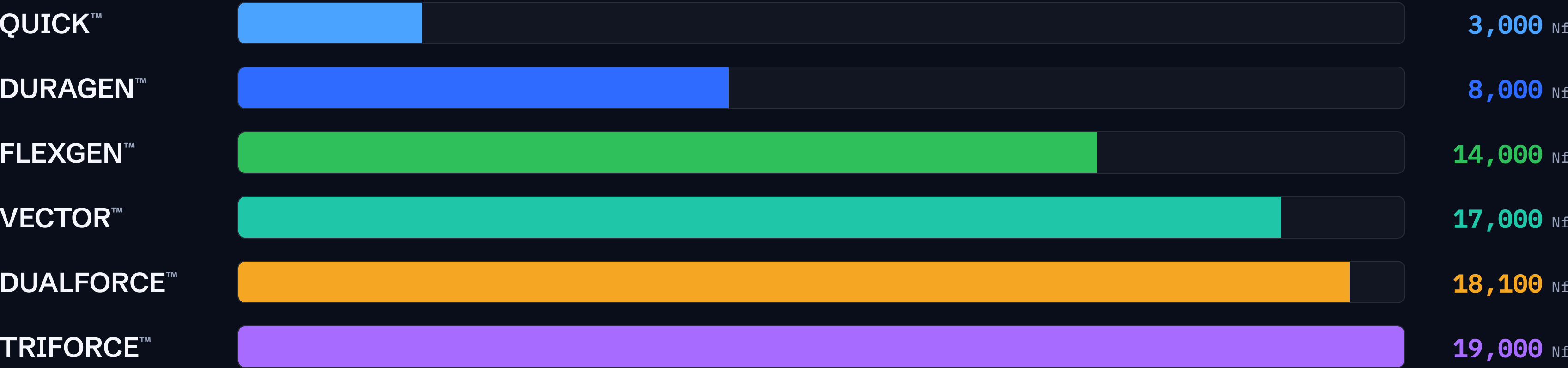
Material Compatibility Matrix

	QUICK™ PETG	DURAGEN™ PCTG	FLEXGEN™ PCTG	VECTOR™ TPU	DUALFORCE™ PCTG · TPU	TRIFORCE™ PCTG · TPU
APPLICATION						
Aligners High elasticity required						
Retainers Dimensional stability critical						
Splints Rigidity & wear resistance						
Guards Impact absorption & comfort						
Whitening / Tray Short-term aesthetic use						
Surgical / Guide Precision & structural accuracy						
FATIGUE LIFE	3,000 Nf	8,000 Nf	14,000 Nf	17,000 Nf	18,100 Nf	19,000 Nf

Recommended Not recommended

Fatigue Life by Product

Cycles to failure under cyclic load — higher is more durable.



0 ----- 19,000 Nf

Frequently Asked Questions

Is the material clinically proven and biocompatible?

Kalivon® thermoforming sheets has successfully passed biocompatibility evaluations, including skin sensitization, in vitro cytotoxicity, and skin irritation tests, key regulatory requirements for demonstrating preclinical safety of medical devices.

What are the advantages compared to conventional materials?

- Crystal-clear transparency with minimal haze for better aesthetics
- Exceptional toughness and flexibility, reducing cracks during thermoforming
- Consistent shape retention under heat and pressure cycles

What is the shelf life?

Under proper storage conditions and unopened vacuum packaging, the product retains full performance for three (3) years.



BPA-free. Latex-free.
Biocompatibility tested;
ISO 10993, EN ISO 7405.

PETG & PCTG & TPU & Dual & TriLayer