

cristal clear aligner out of Erkodur-al

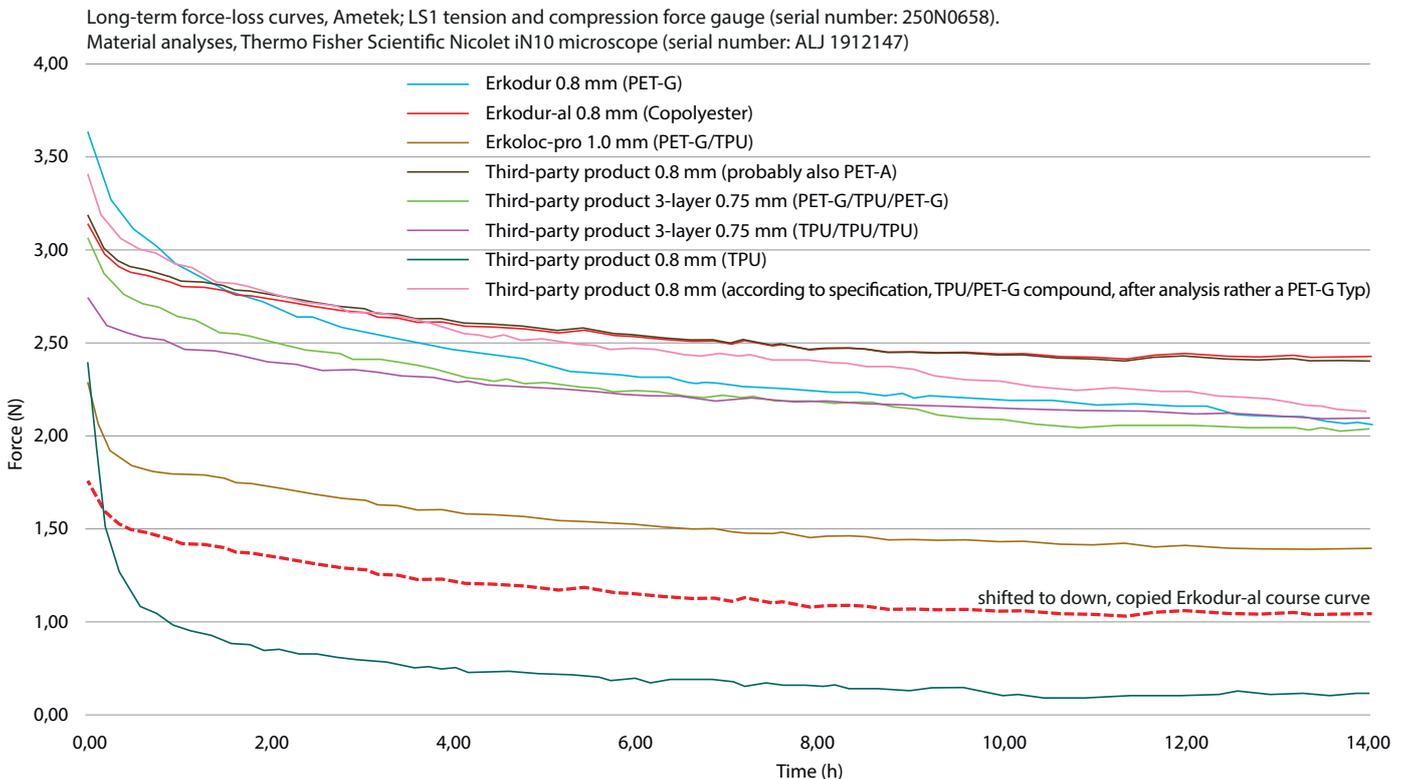
Erkodur-al,

is a foil material optimized for the production of aligners. It is a viscoelastic hard, break-resistant material with excellent dimensional stability - even under tension.

Compared to the tried-and-tested Erkodur, Erkodur-al is approximately 35 % softer with lower initial force and thus less feeling of tension during insertion.

This not only means more comfort for the patient, the elasticity of the material also allows the effective force for correcting the misalignment of the teeth to last longer. The result is an effective but also gentle correction.

The very flat force-loss curve measured in the comparison shows that Erkodur-al has a more favorable force-loss curve than most known materials. Even multilayer materials do not show a better course curve compared to Erkodur-al.



Long-term force loss test:

The curves were determined for all materials under the same conditions.

Other brands were obtained from the trade.

The curves were determined several times and averaged.

The material analysis only revealed for one third-party material a contradiction between the data given and the analysis result.

The curves show that multilayer does not lead to significantly flatter curves. The PET-G/TPU/PET-G curve is even more unfavorable. The TPU/TPU/TPU curve runs similarly to Erkodur-al as does another single-layer third party product.

The TPU tested turned out to be unsuitable.

Erkoloc-pro 1.0 mm is not directly comparable (0.6 mm hard). The curve is more like Erkodur in terms of the initial loss of force, but then the curve becomes as flat as Erkodur-al.

Erkoloc-pro 1.0 and 1.3 mm remains the most comfortable aligner material for treatments without attachment.

Note on finishing:

Intensive tests have shown that Lisko white (223100) is best suited for smoothing the splint edges.

For this purpose, 2 Lisko white are mounted on a mandrell with the support discs.

Supplementary an extract of the technical data of Erkodur and Erkodur-al, for further data see product data sheets, <https://www.erkodent.de/en/service-download/product-data-sheets/>

Erkodur:

density 1.27 g/cm³, modulus of elasticity 2020 MPa, elongation at break 50 %, water absorption 0.2 %, temperature resistance 63 °C

Erkodur-al:

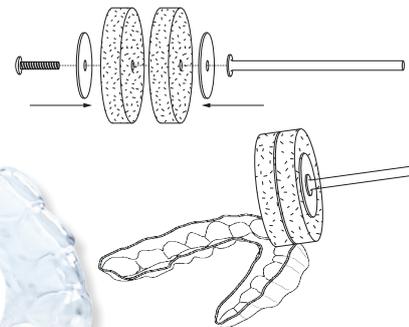
density 1.19 g/cm³, modulus of elasticity 1462 MPa, elongation at break 179 %, water absorption 0.5 %, temperature resistance 85 °C

Erkodur-al is available in three thicknesses (0.6/0.8/1.0 mm) and in three formats (Ø 120, 125, 240 mm).

Request your sample in 0.8 mm thickness.



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Erkodur-al:
Ø 120 mm 524106/ 20 foils
≙ 0.6 mm 524606/100 foils
Ø 120 mm 524108/ 20 foils
≙ 0.8 mm 524608/100 foils
Ø 120 mm 524110/ 20 foils
≙ 1.0 mm 524610/100 foils

Ø 125 mm 522006/ 20 foils
≙ 0.6 mm 523006/100 foils
Ø 125 mm 522008/ 20 foils
≙ 0.8 mm 523008/100 foils
Ø 125 mm 522010/ 20 foils
≙ 1.0 mm 523010/100 foils

Erkodur-al 240:
Ø 240 mm 521106/ 20 foils
≙ 0.6 mm 525006/200 foils
Ø 240 mm 521108/ 20 foils
≙ 0.8 mm 525008/200 foils
Ø 240 mm 521110/ 20 foils
≙ 1.0 mm 525010/200 foils