

Case Study

Durethan® DP BKV 60 EF spring holder overhead cabinet doors



Figure 1 Spring holder; Aventos lift system

[Julius Blum GmbH](#) is a global company headquartered in Höchst in Vorarlberg (Austria) that manufactures high-quality hinge, door and drawer systems and associated installation tools. The components are used in domestic furniture, primarily in kitchen cabinets.

The lift system shown in Fig. 1 from the Blum AVENTOS product line is used in overhead kitchen cabinets with lift-up doors. This lift system ensures that the doors can be opened and closed quietly and effortlessly, and will stay in any position. This places high loads on the springs and spring holders.

Material: Durethan® DP BKV 60 EF

Manufacturer: Julius Blum GmbH

The holders are made of Durethan® DP BKV 60 EF, a highly reinforced, easy-flow PA 6 grade with 60 % glass fiber which has the following advantages for this application:

- High mechanical load-bearing capacity
- Low tendency to creep
- Easy processing thanks to good flowability that is roughly equivalent to a 30 % glass fiber reinforced general-purpose grade.
- High dimensional stability thanks to low shrinkage, a minimal tendency to warp and reduced moisture absorption.

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