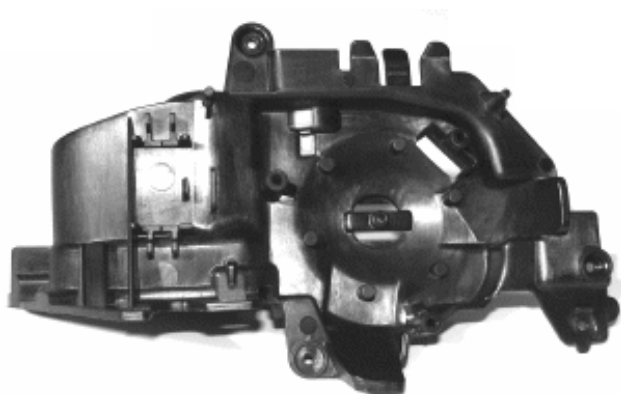


## Case Study

### Durethan® BKV 50 H2.0 EF for mirror baseplate



ASP2 mirror baseplate

Magna Donnelly supplies all major global car makers with interior and exterior mirrors.

Wing mirrors are positioned at the widest extremities of a vehicle. Like all add-on body components, they are designed for minimum air resistance, low noise, maximum dirt resistance and optimum rain runoff.

The baseplate shown in the picture above is located in the mirror housing and supports the hemispherical mirror adjusting drive.

Durethan® BKV 50 H2.0 EF was chosen for this application. This resin is a 50 % glass reinforced EasyFlow grade based on polyamide 6. Despite its high level of reinforcement, the material is almost as easy to process as a standard polyamide with 30 % glass fibers. It offers significantly higher stiffness, a reduced tendency to warp and a lower thermal ex-

**Material:** Durethan® BKV 50 H2.0 EF

**Manufacturer:** Magna Donnelly

**Industry:** Automotive

pansion. Thanks to the low polyamide content, the components have a relatively low water absorption in a humid atmosphere and consequently greater consistency in terms of their properties and dimensional stability.

To ensure optimum vision, the component is required to exhibit particularly good vibration resistance and mechanical load-bearing properties. This is achieved thanks to its high stiffness combined with mechanical strength. The material's toughness ensures a high level of reliability during assembly and resistance to stone chippings in service.

The good resistance of Durethan® BKV 50 H2.0 EF to chemical attack in the form of road salt, cleaning agents, fuels, oils and fats is a further advantage.



---

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Trial Products (grade designations beginning with the codes DP, TP, KL or KU)

This is a Sales Product at the developmental stage (a Trial Product). For this reason, no assurances can be given as to type conformity, processability, long-term performance characteristics or other production or application parameters. No definitive statements can be made regarding the behavior of the product during processing or use. The purchaser/user uses the product entirely at his own risk. The marketing and continued supply of this material are not assured and may be discontinued at any time.

© = LANXESS Deutschland GmbH 2009 | SCP Business Unit | all rights reserved

[www.durethan.com](http://www.durethan.com) | [www.pocan.com](http://www.pocan.com)

Page 2 of 2 | Edition 02.06.2009 | TI 2008-014 EN

---

