

Case Study

Window surround made from Durethan® BKV 215



As well as being attractive to look at, the window surround pictured above also covers and protects the painted car door frame from bumps and damage.

It also has a number of practical functions; for example, a loudspeaker housing or a mount for the mirror adjustment motor can now be integrated directly into the molded part.

The elastomer-modified and highly impact resistant reinforced polyamide 6, Durethan® BKV 215, is a tried and proven material in this application.

The surrounds are produced by injection molding with a hot runner system and multi-point gating. Despite the component's thin walls and its length, the numerous weld lines of the 15 % glass fiber reinforced polyamide are not visible. The window surround offers the required high-quality, finely textured surface.

Material: Durethan® BKV 215

Molder: [Dr. Schneider](#)

Thanks to its high impact resistance, elastomer-modified Durethan® BKV 215 withstands the forced demolding necessitated by an undercut angle essential to the design without suffering any distortion.

Mechanical damage caused by exceptional loading, e.g. during assembly, is largely avoided thanks to the material's high impact and notched impact strength (even at low temperatures) and its high energy absorption under biaxial impact stress. In this case assembly is also possible without the usual conditioning.

Durethan's good resistance to chemicals such as greases, oils, fuels, cleaning agents etc. rounds out its outstanding property profile.



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Note:

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