

Case Study

Engine cover made of Durethan® DP BM 29 X H2.0 EF



Figure 1 Engine cover for the IVECO Daily

Martinplast S.p.A., a company based in San Martino Alfieri, Italy, manufactures the cover for the engine of the Iveco Daily from the LANXESS resin Durethan® DP BM 29 X H2.0 EF, a member of the innovative EasyFlow family. EasyFlow means above all longer flow paths compared with the corresponding standard product, and it also means less stress on the production machines. The EasyFlow product line has a number of other beneficial properties, such as:

- very good surface quality,
- reduction of clamping forces,
- a wider processing window and
- good mechanical and thermal properties.

With its good injection molding performance, its isotropic shrinkage behavior (ensuring low warpage), and its material-saving potential, the manufacturer had no doubt that Durethan® DP BM 29 X H2.0 EF was the right product for this application. Compared with the previous material (standard PA 6 with glass

Material: Durethan® DP BM 29 X H2.0 EF
900116

Injection molder: Martinplast S.p.A., Italy

OEM: IVECO

fiber and mineral reinforcement), the cycle time was reduced by around 20 %. With this EasyFlow grade, Martinplast was also able to lower the processing temperature and thereby work more economically overall. The customer is very satisfied, and particularly appreciates the good flow properties and wide processing window, which provide numerous options for adjusting the melt temperature, the mold temperature and the pressure.

EasyFlow also produces an attractive surface, which should not be ignored even when used for a cover under the engine hood. Compared with the standard product, it has fewer flow lines which means that Durethan® DP BM 29 X H2.0 EF also makes a good optical impression.

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