

Case Study

Audi - All-Plastic Oil Module in Durethan®



Fig. Oil module

With the development of this component, the very first all-plastic oil module entered series production. Integrated in the module are the:

- crankcase ventilation
- oil filter housing and screw-on cap
- oil cooler
- flow control valves

The special feature of this part is its integrated oil cooling. This requires a connection of the oil module to the cooling-water circuit.

OEM: Audi

Material: Durethan® AKV 35 H2.0

Producer: Mann and Hummel

Industry: Automotive

As a consequence the module not only has to be resistant against engine oil, but also must withstand cooling agents.

The oil module is made of Durethan® AKV 35 H2.0 (PA 66 GF35 heat-stabilized) which meets the strict requirements on dimensional stability.

The part received the SPE 2003 Innovation Award.

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