

# News Release



## **New Ultramid® PA66 grades from BASF – a step change in hot air performance**

### **Extending PA 66 into higher temperature applications**

WYANDOTTE, MI, January 23, 2009 – BASF Engineering Plastics today introduced two new resins: Ultramid A3W2G10 and Ultramid A3W2G6. The label “W2” in the product nomenclature indicates that these are high heat-stabilized polyamide 66 grades for continuous use in temperatures of 180 C to 190 C and short term exposure up to 230 C. Typically, PA 66’s long-term useful range is 140 C to 160 C.

Ultramid A3W2G10 and Ultramid A3W2G6, which are respectively 50 percent and 30 percent glass reinforced, are currently available and perform well in under-the-hood automotive applications, as well as in turbo charging systems for the hot side charge air cooler end cap and ducting. In many applications, these products can replace more expensive resins like polyphthalamide (PPA) and polyamide 46 as lower cost alternatives to meet customer cost reduction needs. These new grades also enable further metal-to-plastic replacement opportunities, thereby reducing vehicle weight, improving gas mileage and reducing emissions.

The first commercial adoption was in the end caps of charge air intercoolers manufactured by the Behr Company, where the requirements were 190 C continuous temperature and pressure fluctuating between 0.1 and 1.5 bar. This cooler is used on the Transit Connect/Tourneo Connect with a 1.8-liter TDCi common-rail turbo diesel engine.

#### **Key Properties:**

- Special heat stabilizing system
- Useful temperature range -40 C to 210 C

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- Good processing properties and weldability
- High stiffness and strength
- Excellent long-term heat aging characteristics
- Resistance to engine fluids and cleaners
- Low creep properties
- Good surface appearance

To learn more about Ultramid A3W2G10, visit BASF's website at:

[www.plasticsportal.com/usa](http://www.plasticsportal.com/usa) or

[http://www.basf.com/businesses/plasticportal/Products/Ultramid/Ultramid\\_A3W2G10\\_Polyamide\\_66\\_PA66.html](http://www.basf.com/businesses/plasticportal/Products/Ultramid/Ultramid_A3W2G10_Polyamide_66_PA66.html)

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Suggested caption: End caps of charge air intercoolers manufactured by Behr successfully use high heat-stabilized, highly filled Ultramid A3W2G10 from BASF.