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New polyamide 6 for extrusion blow molding of tubes with soft segments

Extremely soft, yet hard-wearing

Also ideal as a super-tough material for injection-molding applications

Leverkusen – The new Durethan BC 700 HTS from specialty chemicals group LANXESS is an exceptionally soft polyamide 6. It has an elasticity modulus of only 210 MPa (conditioned). This non-reinforced material is perfect for manufacturing charge air tubes with integrated bellows as a single-material solution using extrusion blow molding. "This gives processors a cost-effective alternative to sequential coextrusion involving two polyamides of differing hardness, which is more time-consuming and sensitive in terms of the process employed," explained Dr. Günter Margraf, a product developer for polyamide compounds at LANXESS. The new material is so soft that it also has excellent sealing properties. This made it possible for prototype charge air tubes made from it to be flange-mounted to charge air coolers and air intake manifolds using just one bracket without leaks occurring. The need for additional sealing rings was thus eliminated.

Resistant to thermal aging and blow-by gases

Under the hood there is a trend towards supercharged engines with exhaust gas recirculation to cut fuel consumption and thus CO_2 emissions. Charge air tubes with integrated bellows compensate for the relative movements of these engines and assembly tolerances. As a result of exhaust gas recirculation, the charge air tubes need to be highly resistant to exhaust gas / blow-by gas condensates. LANXESS therefore conducted appropriate tests using the new polyamide 6 grade in accordance with the OEM testing regulations. These showed that the material is more resistant to oils, fuels and acidic condensates than thermoplastic polyester elastomers and elastomer block copolyamides, which are also used for blow molding charge air tubes in series production.

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Special blends of polyamide and polyolefins are also frequently used for flexible blow molding tubes. However, compared to Durethan BC 700 HTS, these materials exhibit much lower thermal aging stability, which is also the case with polyester elastomers. "This gives Durethan BC 700 HTS the edge over these rival materials in at least one key property," said Margraf.

For use on series molds

The new material has already been successfully trialed on series molds for charge air tubes with several customers, confirming its excellent processing properties in extrusion blow molding. One reason for this is its high melt stiffness, which ensures the extruded parison barely sags under its own weight. "Our material can therefore be blow molded within a wide processing window in a stable process," commented Margraf.

The new polyamide 6 grade is also ideal for injection molding of components with very strict toughness requirements and has already been successfully tested on series molds. It can be used, for example, to injection mold multi-flexible hose connections.

Wide product range for blow molding

LANXESS boasts a wide product portfolio of high-viscosity and heat-stabilized polyamide 6 and 66 grades for blow molding air-ducting hollow components in engine compartments. It includes both non-reinforced and filled materials with glass fiber contents of 15 and 25 percent. The "range of hardnesses" extends from very soft grades such as Durethan BC 700 HTS to hard polyamides with an elasticity modulus of 5,300 MPa (conditioned). Material grades for cooling circuit tubes that are particularly resistant to hydrolysis are also part of the range. Detailed information on the product range for blow molding can be found at www.durethan.com.

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LANXESS is a leading specialty chemicals company with sales of EUR 5.06 billion in 2009 and currently around 14,400 employees in 23 countries. The company is

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represented at 42 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of plastics, rubber, intermediates and specialty chemicals.

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Forward-Looking Statements.

This news release may contain forward-looking statements based on current assumptions and forecasts made by LANXESS AG management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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You can find further information concerning LANXESS chemistry in our WebMagazine at http://webmagazine.lanxess.com.

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