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Borealis next generation Borpact™ SH950MO grade innovation takes on frozen food packaging sector

Borealis, a leading provider of chemical and innovative plastics solutions, is offering a step-up in performance and processing sustainability to the frozen food packaging sector with the launch of next generation transparent polypropylene (PP) grade Borpact™ SH950MO.

Based on Borealis Nucleation Technology (BNT), new Borpact SH950MO features a unique combination of transparency and good drop impact properties in low temperatures. Its performance is enhanced by higher flow (melt flow rate of 40) and better processability with improved stiffness (1050 MPa) compared to its predecessor Borpact™ SG930MO. The improved properties and better processing efficiency bring benefits and cost savings throughout the packaging value chain.

Developed primarily for packaging of deep freeze products such as ice cream, frozen desserts and other frozen food items, Borpact SH950MO is also an excellent choice for broader consumer packaging and housewares when the combination of good impact performance and transparency is a top priority.

Brand owners can develop visually appealing articles which offer a clear view of the contents without the fear of damage or brittle breakages. Also due to the good organoleptics properties, the taste and odour of the packed product will not be altered. The additional benefits of high gloss and very low stress whitening also make Borpact SH950MO ideal for special closure designs.

The higher flowability of the new grade enables converters to use lower processing temperatures which, in combination with BNT, support energy and cycle time savings. For example in trials of one litre volume ice cream containers, it was possible to decrease the processing temperature by 20°C. A reduction of injection pressure was also observed during the trials. Borpact SH950MO's improved formulation and higher stiffness leads to better demoulding properties, making processing easier and contributing to an overall more efficient production process.

One of the key aspects of the new Borpact SH950MO grade is the opportunity to benefit from its improved properties to downgauge material use. The high flowability and improved stiffness, both compared to the standard random PP grades, enable the use of thinner walls and more complex designs without compromising product properties or processing performance.

"The introduction of Borpact SH950MO is an excellent example of Borealis' Value Creation through Innovation strategy," comments Rainer Höfling, Borealis Vice President Business Unit Moulding. "We have invested in creating

1 (3)



a next generation grade with improved processability and end product performance that takes the lead in supporting the sustainability and differentiation requirements of the thin wall consumer packaging market."

Borpact SH950MO as well as more Borealis innovations will be featured at the Thin Wall Packaging Conference from December 3-5, 2012 at the Maritim Hotel in Cologne, Germany.



Next generation transparent PP grade Borpact™ SH950MO

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Borealis Business Unit Moulding

Borealis moulding business specialises in supplying advanced polyolefin plastics for injection and blow moulding processing technologies. Through leading technologies such as Borstar and BNT (Borealis Nucleation Technology) and a product portfolio for a wide range of applications such as bottles, thin wall packaging, caps and closures, transport packaging, houseware and healthcare, we have established over 50 years a leading position on the moulding market across Europe, the Middle East and Asia. We believe that customer-driven innovation is the only way to achieve and sustain progress.

Borealis is a leading provider of chemical and innovative plastics solutions that create value for society. With sales of EUR 7.1 billion in 2011, customers in over 120 countries, and around 5,300 employees worldwide, Borealis is owned 64% by the International Petroleum Investment Company (IPIC) of Abu Dhabi and 36% by OMV, the leading energy group in the European

2 (3)



growth belt. Borealis is headquartered in Vienna, Austria, and has production locations, innovation centres and customer service centres across Europe and the Americas. Through Borouge, a joint venture between Borealis and the Abu Dhabi National Oil Company (ADNOC), one of the world's major oil and gas companies, the company's footprint reaches out to the Middle East, Asia Pacific, the Indian sub-continent and Africa. Established in 1998, Borouge employs approximately 1,700 people, has customers in more than 50 countries and its headquarters are in Abu Dhabi in the UAE and Singapore.

Building on Borealis' unique Borstar[®] and BorlinkTM technologies and their more than 50 years experience in polyolefins, Borealis and Borouge provide innovative, value creating plastics solutions for the infrastructure (pipe systems and power and communication cables), automotive and advanced packaging markets. In addition, Borealis offers a wide range of base chemicals from melamine and fertilizer to phenol and acetone.

Today, Borealis and Borouge have a manufacturing capacity of over 5.4 million tonnes of polyolefins (polyethylene and polypropylene) per year having recently completed a 1.5 million tonne capacity expansion in Abu Dhabi. The Borouge 3 plant expansion will be completed at the end of 2013 with a further capacity of 2.5 million tonnes per year (t/y) being fully operational in mid-2014. The companies continue to invest to ensure that their customers throughout the value chain and across the globe can always rely on product quality, consistency and security of supply.

Borouge and Borealis are committed to the principles of Responsible Care[®] and proactively contribute to addressing the world's water and sanitation challenges through their Water for the World[™] initiative.

For more information visit:

www.borealisgroup.com www.borouge.com www.waterfortheworld.net

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