

PRODUCT NEWS

# BorPure™ RG466MO

## crystal clear solution for organoleptic PP

random with high MFR



# A step change in innovation

- BorPure RG466MO, a PP random copolymer, based on our proprietary Borstar® Nucleation Technology (BNT), is the first of its kind, with a step change in organoleptic performance
- Drives the change to include no after taste nor odour in food with a high MFR and high purity
- High crystallisation speed allows for fast production and short cycles
- Offers excellent stiffness/impact balance, transparency, low warpage, good antistatic with ease of moulding complex geometries for house- and kitchenware products
- Imparts benefits for all value chain members, from producer to consumer, with food contact approvals, optimized demoulding properties, and low extractables
- An environmentally friendly product, helping to minimise overall CO<sub>2</sub> emissions by reducing overall energy consumption



## Giving additional value to the value chain

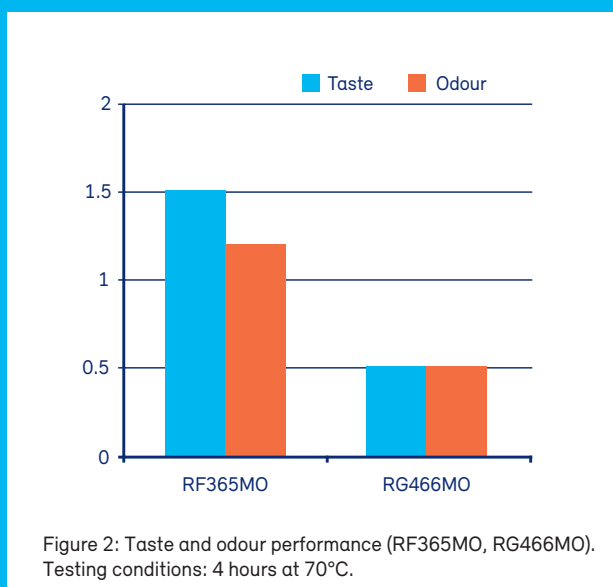
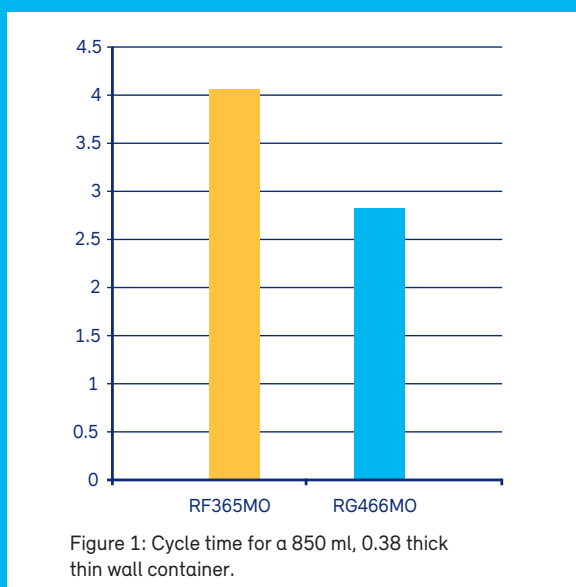
- 10% lower cycle times
- 10% lower processing temperatures
- 5% reduction in overall CO<sub>2</sub> emissions
- Enhances image and perception of plastic at consumer level
- Benefits more and more food sensitive applications

Property	RF365MO	RG466MO	Unit
MFR	20	30	g/10 min
Tensile modulus	1,150	1,050	MPa
Charpy 23 °C/0 °C	6	6	kJ/m <sup>2</sup>
HDT 0.45 N/mm <sup>2</sup>	80	75	°C
Haze 1 mm	10	10	%

# Industrial test – case study

## 2 cavity cup mould

- Significant change in taste and odour performance
- High throughput resulting in 1 million more cups/yr
- Energy savings of 10%
- CO<sub>2</sub> reduction of 4 tons/yr



## Making everyday life easier

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**About Borealis** Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals, fertilizers and the mechanical recycling of plastics. We leverage our polymers expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

With head offices in Vienna, Austria, Borealis employs 6,900 employees and operates in over 120 countries. In 2021, Borealis generated total sales and other income of EUR 10,153 million and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of Borealis, while the remaining 25% is owned by a holding company of the Abu-Dhabi based Mubadala. We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with the Abu Dhabi National Oil Company, or ADNOC, based in UAE); and Baystar™ (with TotalEnergies, based in the US).

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