

PRODUCT NEWS

BorPure™ RJ378MO

High-aesthetic organoleptic polypropylene
random copolymer for injection molding



BOREALIS

بروج

Borouge





Description

Borealis expands its range of high-purity organoleptic transparent polypropylene (PP) random copolymers with BorPure™ RJ378MO. In addition to offering excellent mechanical properties and processability, our new grade BorPure™ RJ378MO meets the demanding aesthetic requirements of high-end food applications, adding a subtle blue tint to injection-molded packaging.

Application

BorPure™ RJ378MO can be used to produce a wide range of thin-walled packaging for food and non-food applications where high aesthetic standards and organoleptic properties are essential. Typical products include houseware containers, storage boxes, lids, and more.

Special features

- Good transparency with a subtle blue tint
- High gloss finish
- Well-balanced stiffness and toughness
- Easy to process, with high flow properties
- Produced using Borealis Borstar® Nucleation Technology (BNT):
 - Fast crystallization speed
 - Shorter cycle times
 - Lower energy consumption
 - Dimensional stability
- Outstanding organoleptic properties – minimal taste and odor
- Also available with up to 90% renewable or chemically recycled content (ISCC+ certified; accounted using a mass balance approach)



BorPure™ RJ378MO

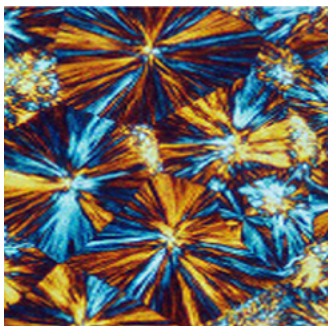
BorPure™ RJ377MO

Value creation with BorPure™ RJ378MO

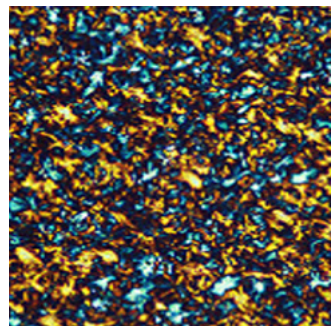
Like BorPure™ RJ377MO, BorPure™ RJ378MO offers improved processability, balanced stiffness and toughness, and superior taste and odor performance compared to other random PP grades. This is due to Borealis' proprietary Borstar Nucleation Technology, which also enables downgauging and downweighting potential. BorPure™ RJ378MO is a cost-effective circular solution for thin-walled injection-molded rigid packaging, providing:

- Faster cycle times
- Energy savings
- Outstanding aesthetics, enhanced by a food-approved optical brightener

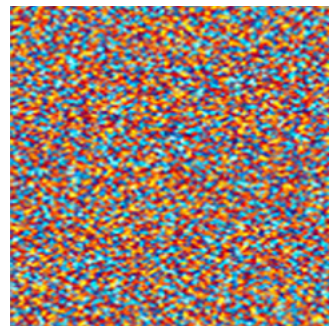
Increasing stiffness 



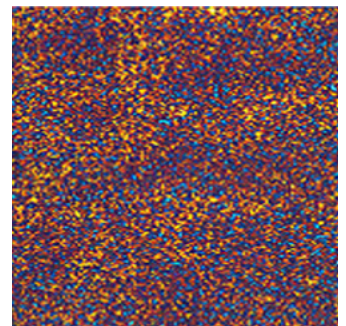
Non nucleated



Talc nucleated



Na-benzoate nucleated



BNT nucleated



Property	Unit	Test method	BorPure™ RJ378MO
Density	Kg/m ³	ISO 1183-1	905
MFR (@ 230°C/2,16 kg)	g/10min	ISO1133-1	45.0
Flexural Modulus	MPa	ISO178	1100
Tensile Modulus (1 mm/min)	MPa	ISO 527-2	1100
Charpy impact strength, notched (23°C)	KJ/m ²	ISO 179-1/1eA	4.0
Heat deflection temperature B (0.45 MPa)	°C	ISO 75-2	75

Table: BorPure™ RJ378MO indicative physical properties ©Borealis

Borealis and Borouge packaging solutions are making everyday life easier

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Borealis is one of the world's leading providers of advanced and sustainable polyolefin solutions. In Europe, Borealis is also an innovative leader in polyolefins recycling and a major producer of base chemicals. We leverage our polymer expertise and decades of experience to offer value-adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility.

With operations in over 120 countries and head offices in Vienna, Austria, Borealis employs around 6,000 people. In 2022, we generated a net profit of EUR 2.1 billion. OMV, the Austria-based international oil and gas company, owns 75% of our shares. The Abu Dhabi National Oil Company (ADNOC), based in the United Arab Emirates (UAE), owns the remaining 25%.

In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe. Our operations are augmented by two important joint ventures: Borouge (with ADNOC, headquartered in the UAE), and Baystar™ (with TotalEnergies, based in the US).

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