

Solutions for

Rotational moulding applications



SHAPING *the* FUTURE with PLASTICS

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Product name Granules	Product name Powder	MFR 190°C/2.16kg [g/10 min]	Density [kg/m ³]*	Tensile modulus 1mm/min [MPa]	Stress at Yield 50 mm/min [MPa]	ARM Impact 20°C [J]	HDT [°C]	Applications ¹⁾
Polyethylene products								
Natural grades								
Borecene™ RM7402	Borecene™ RM7403	4.0	940	700	20	92	68	Good flow combined with high stiffness. Thick wall applications, large containers and foamed articles. ²⁾
Borecene™ RM8342	Borecene™ RM8343	6.0	934	650	18	90	65	Very good flow and mechanical properties. Technical and intricately shaped articles ²⁾ .
ME8151	ME8152	3.6	934	600	18	86	58	Very good combination of properties. Versatile usage ²⁾ .
RL7382	RL7383	3.0	938	700	20	82	65	A grade with high UV performance for outdoor and underground applications.
Black grades								
Borecene™ RM7404	Borecene™ RM7405	4.0	940	750	20	92	68	Black version of RM7402/RM7403. Underground and infrastructure applications ²⁾ .
Borecene™ RM8344	Borecene™ RM8345	6.0	934	650	18	90	65	Black version of RM8342/RM8443. Automotive and infrastructure applications ²⁾ .
ME8130	ME8130	3.6	934	600	18	86	58	Black versions of ME8185/ME8152. Very good combination of properties. Versatile usage ²⁾ .

* Base resin density

¹⁾ To maximize the application benefits Borecene products in Rotational Moulding, utilise the recommended processing conditions stated in the Borecene and Borecene Compact Processing Guide.

²⁾ WRC/WRAS approved for contact with drinking water.

Food and drug regulations

The materials listed here, meet the food contact regulations in most countries. If required, please contact your Borealis representative for a certificate.

Contact with drinking water

All Borealis grades for rotational moulding listed above are WRC/WRAS approved for contact with drinking water. Borecene Compact RM7406 and RM8346-9004 are DVGW-Standard W270 approved for contact with drinking water.

Test Methods

Melt flow rate MFR = ISO 1133
Density = ISO 1183
Tensile modulus (1 mm/min) = ISO 527-2
Stress at Yield (50 mm/min) = ISO 527-2
HDT, Heat Deflection Temperature (0.45 MPa) = ISO 75-2
IFW, Impact Falling Weight = ISO 6603-02

UV stabilisers and antioxidants

All Borealis grades for Rotational Moulding are UV stabilised. The black grades listed are extra UV stabilised with Carbon Black. Borecene RM7404/RM7505 contains less than 1% Carbon Black. Borecene RM8344/RM8345 contains 1% Carbon Black. RL7382 and RL7383 are extra UV stabilized and are to be considered as UV8 according to ISO 4892-2. Borealis knows that external factors like processing, pigmentation, article design, atmospheric conditions, etc. may influence mechanical performance and UV life time of articles made of polyethylene products. Borealis can therefore not guarantee the product life time of articles made of Borealis products, and the final life time must therefore be verified and guaranteed by the converter towards the end-user.



Ultrapolymers is a major European distributor in the field of commodities, engineering and speciality polymers. With sales offices and warehouses throughout Europe, Turkey and South Africa Ultrapolymers established a commercial network with local presence to serve its suppliers in the best possible way and to offer a full product portfolio to its customers and quickly deliver any quantity from 1 bag to a full truckload. Borealis has selected Ultrapolymers as distribution partner in Europe for its full range of polyethylene and polypropylene rotomoulding (RM) resins. The appointment of Ultrapolymers consolidates the reputation of Borealis as a leading, innovative provider of plastics solutions with a long-term commitment to the rotomoulding market in Europe.



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Borealis – a leading, innovative plastics provider

Borealis is a leading provider of innovative, value creating plastics solutions with more than 40 years of experience in the polyethylene (PE) and polypropylene (PP) business. Borealis products are converted by its customers into daily life products such as advanced food packaging, medical devices, distribution pipes, automotive parts, power cables and appliances.

Borealis Moulding

Borealis Business Unit Moulding specialises in supplying advanced polyolefin plastics for injection, rotational moulding and blow moulding processing technologies. Through leading Borealis technologies such as Borstar, and BNT (Borealis Nucleation Technology) and a product portfolio for a wide range of applications like bottles, thin wall packaging, caps and closures, transport packaging, houseware and healthcare, Borealis has over 40 years established a leading position on the moulding market across Europe.

Borealis believes that customer-driven innovation is the only way to achieve and sustain progress. In the moulding industry, Borealis has pioneered the development of several leading edge solutions. For example, low temperature impact, transparent

polyolefins have opened up new opportunities in deep freeze display packaging. In the ISBM segment, biaxially oriented PP has reduced the weight and increased the transparency of bottles. Through foresight and focus on customer needs, Borealis continues to provide innovative solutions for the moulding industry that add real value throughout the value chain.

We know the high value that our customers in the moulding industry place on product consistency and processability. We pride ourselves on the performance of our products, and through ongoing investment in upgrades and new plant programmes, we continue to set new records for output efficiency and product reliability.

Borealis believes that responsiveness is the foundation of fruitful customer partnerships. Business Unit Moulding ensures this through the resources of strategically placed Borealis hubs across Europe: Borealis Scandinavia, Borealis Central Europe, Borealis Belgium and Borealis Finland, an innovation centre at Borealis Scandinavia in Bamble, Norway, and a strong sales force across Europe.

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