

SUMMARY DATA SHEET

# Solutions for Biaxially Oriented Film (BOPP) Applications



BOREALIS

بروج

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	Product name	Polymer type	MFR (230, 2.16) g/10 min	MWD N M B	Slip agent	Additives Anti-block	Ca-stearate	S.I.T. (°C)	Melting temp. (°C)	Key properties	End-use applications
Core layer	HC101BF	Homopolymer	3.2	B						Excellent mechanical properties with easy stretchability	High-quality packaging films
	HC110BF	Homopolymer	3.2	B			•			High-crystalline version of HC101BF with increased stiffness and reduced shrinkage, resulting in improved barrier properties	Lamination film, label film, print or barrier web for recyclable food packaging that withstands hot fill and sterilization conditions
	RB501BF	Random copolymer	1.9	M			•			High shrinkage with easy processing, especially in the double bubble process	Shrink film
Sealing layer	TD310BF	Terpolymer	6	M		•		105	131	Excellent balance between high melting temperature and low seal initiation temperature, with low extractables and good processing on high-speed BOPP lines	Packaging film, metalizable film, lamination film
	TD312BF	Terpolymer	6	B		•	•	105	131		Multipurpose packaging film, label film, lamination film
	TD315BF	Terpolymer	6	M	•	•	•	105	131		Multipurpose packaging film for VFFS and HFFS packaging lines

**Abbreviations legend**

MWD: Molar Weight Distribution  
 N: Narrow  
 M: Medium  
 B: Broad

**Packaging lines**

VFFS: Vertical Form Fill & Seal  
 HFFS: Horizontal Form Fill & Seal

**Test methods**

MFR: Melt Flow Rate (230, 2.16) g/10 min = ISO 1133

S.I.T.: Borealis method Seal Initiation Temperature

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[www.borealisgroup.com](http://www.borealisgroup.com) and [www.borouge.com](http://www.borouge.com) or contact your Borealis or Borouge representative.





## Our partners can also benefit from the Bornewables™ and Borcycle™ C versions of all our BOPP grades.

### Accelerating action on circularity with the Bornewables™ and Borcycle™ C ISCC PLUS-certified polyolefins

Meet your sustainability targets with renewable or chemically recycled feedstocks, offering the same material performance and regulatory compliance as virgin grades.

#### The Bornewables

The Bornewables offer polyolefins with a reduced carbon footprint and are produced with renewable feedstock derived entirely from waste and residue streams.



#### Borcycle C

Borcycle C is our chemically recycled line of polyolefins and renews plastic back to plastic, giving polyolefin-based, post-consumer waste another life and delivering on the European Packaging, Packaging Waste Regulation (PPWR) requirements in contact sensitive applications.



# Key benefits of polyolefin BOPP solutions

Drawing on over 40 years of experience in supplying resins for the flexible packaging industry, Borealis offers a focused range of heat seal and homopolymer core layer polypropylene (PP) materials, suitable for applications ranging from single-web films to multi-layer mono-material recyclable laminates with high barrier properties for both food and non-food flexible packaging. Our close collaboration along the value chain has given us a deep understanding of the relationship between polymer structure and film processing, as well as knowledge of conversion processes and end-use applications.

## Efficient processing on high-speed BOPP lines

- Optimized viscosity in our PP heat seal materials supports stable processing at high line speeds
- A highly active additive package reduces cleaning frequency and material waste

## Sealability

- A broad sealing window on packaging lines allows for fast changeovers
- Very low seal initiation temperature and high hot tack force enable high packaging line speeds

## High surface bond strength

- A surface with good functionalization potential helps maintain a high level of corona pre-treatment over time, supporting strong adhesion to printing inks, barrier coatings, and adhesives

## Heat resistance

- High-crystalline PP homopolymer grades offer low shrinkage rates under thermal stress, such as during hot fill or sterilization processes

## Reliable supply

- Stable supply of high-quality PP heat seal materials worldwide





## Borealis and Borouge consumer products solutions are making everyday life easier

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