

Polypropylene

Dipolen™ PP F100-89

Post-Consumer Recyclate

Description

Dipolen™ PP F100-89 is an anthracite polypropylene post-consumer recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. Dipolen™ PP F100-89 is a post-consumer recyclate including a large part of recycled post-consumer waste coming from pre-sorted household waste. It is a part of EuCertPlast certificate according to European Standard EN15343:2007 (certificate available upon request). Due to the nature of recyclates, some variation in colour can be observed between batches.

Good demoulding properties
 Good stiffness impact balance

Available in homogenised 24-ton truckloads
 Filtration: 100µm

Applications

Dipolen™ PP F100-89 is intended for following applications:

Injection moulding non-food applications

Physical properties

Property	Typical value *	Unit	Test method
Density	915	kg/m ³	ISO 1183
Melt flow rate (230 °C/2.16 kg)	10	g/10min	ISO 1133
Ash content (950°C) ¹	<5	%	ISO 1172
Charpy impact strength, notched (23 °C)	5	kJ/m ²	ISO 179-1/1eA
Moisture content	<0.1	%	Moisture analyzer (infrared)
Tensile modulus (1 mm/min)	1200	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	27	MPa	ISO 527-2

* Data should not be used for specification work

¹ Refers to filler content

Processing techniques

Following parameters should be used as a guideline:

Processing setting	Typical value/range
Melt temperature ²	230 °C
Holding pressure ³	350 bar
Mould temperature ⁴	35 °C

² range: 210 - 260 °C

³ range: 200 - 500 bar

⁴ range: 30 - 40 °C

Injection speed: High
 Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

Packaging and storage

Dipolen™ PP F100-89 should be stored in dry conditions at temperatures below 50 °C and protected from UV-light. Improper storage can initiate degradation, which can result in odor generation and color changes and can have negative effects on the physical properties of this product. Following aforementioned conditions the material can be stored for a period of up to 1 year after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

Dipolen™ is a trademark of the Borealis Group



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Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Disclaimer

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