

Post-Consumer Recyclate

Recleo" S D7000-74

Recycled PP/PE Blend



Accelerating Action
on Circularity

Description

Recleo" S D7000-74 is a dark grey polypropylene dominated polyolefin post-consumer recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. Recleo" S D7000-74 is a post-consumer recyclate including a large part of recycled post-consumer waste coming from pre-sorted household waste. It has a Recyclclass certificate available upon request. Due to the nature of recyclates, some variation in colour can be observed between batches.

Typical characteristics

Good demoulding properties
Good stiffness impact balance

Available in homogenised 24-ton truckloads

Applications

Recleo" S D7000-74 is intended for following applications:

Injection moulding non-food applications

This product is recommended for Hot Runners.

Physical properties

| Property | Typical value * | Unit | Test method |
|---|-----------------|-------------------|------------------------------|
| Density | 930 | kg/m ³ | ISO 1183 |
| Melt flow rate (230 °C/2.16 kg) | 9 | g/10min | ISO 1133 |
| Ash 650°C ¹ | <5 | % | ISO 1172 |
| Moisture content | <0.1 | % | Moisture analyzer (infrared) |
| Tensile modulus (1 mm/min) | 1000 | MPa | ISO 527-2 |
| Charpy impact strength, notched (23 °C) | 5.5 | kJ/m ² | ISO 179-1/1eA |

* Data should not be used for specification work

¹ Refers to filler content

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

²range: 210 - 260 °C

³range: 200 - 500 bar

⁴range: 30 - 40 °C

Injection speed: High

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

Processing techniques

Following parameters should be used as a guideline:

Recleo" is a trademark of the Borealis Group

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Packaging and storage

Recleo" S D7000-74 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. The shelf life is a maximum of one year after production. The shelf life of a product can be extended after properties are re-testing selected material properties and verifying that the test results are still within the product specification. It is recommended to measure the moisture after longer storage periods prior to processing.

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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