

Polypropylene

Purpolen™ PP Y40-74

Post-Consumer Recyclate



Accelerating Action
on Circularity

Description

Purpolen™ PP Y40-74 is a dark grey polypropylene (PP) post-consumer recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. It is a post-consumer recyclate including a large part of recycled post-consumer waste coming from pre-sorted municipality waste. Purpolen™ PP Y40-74 is 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.

Cas No. 9003-07-0

Good stiffness / impact balance and low odour

Good demoulding properties

Available in homogenised 24-ton truckloads

Filtration: 180µm

Applications

Purpolen™ PP Y40-74 is intended for following applications:

Injection-moulded non-food applications

Physical properties

Property	Typical value *	Unit	Test method
Density	915	kg/m³	ISO 1183
Melt flow rate (230 °C/2.16 kg)	40	g/10min	ISO 1133
Ash content (950°C) ¹	<5	%	ISO 1172
Moisture content	<0.1	%	Moisture analyzer (infrared)
Tensile modulus (1 mm/min)	1200	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	24	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	5,5	kJ/m²	ISO 179-1/1eA

¹ Refers to filler content

* Data should not be used for specification work

Processing techniques

This product is easy to process with standard injection moulding machines.

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

Purpolen™ 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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