

Polypropylene

PP Y40-04

Post-Industrial Recyclate



Accelerating Action
on Circularity

Description

PP Y40-04 is a black polypropylene (PP) post-industrial recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. PP Y40-04 consists of post-industrial waste coming from Borealis plants. Due to the nature of recyclates, some variation in colour can be observed between batches.

Good stiffness / impact balance
Good demoulding properties

Low odour
Available in homogenised 24-tons

Applications

PP Y40-04 is intended for following applications:
Injection moulding applications

Physical properties

Property	Typical value *	Unit	Test method
Density	970	kg/m ³	ISO 1183
Melt flow rate (230 °C/2.16 kg)	40	g/10min	ISO 1133
Ash content (950°C)	10	%	ISO 1172
Moisture content	<0.1	%	Moisture analyzer (infrared)
Tensile modulus (1 mm/min)	1600	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	15	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	4.5	kJ/m ²	ISO 179-1/1eA

* Data should not be used for specification work

Processing techniques

Following moulding parameters should be used as guideline:

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure ¹	200 - 500 bar
Mould temperature	30 - 40 °C
Injection speed	High

¹ Minimum to avoid sink marks.

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

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.

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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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