

Polypropylene PP-044



Description

PP-044 is a mixed coloured, not homogenised polypropylene supplied in pellet form for several applications in the plastic industry with feedstock coming from Borealis plants. This PP is ideally used where sustainability and circularity matter.

It is not intended for use in beverages, drinking water contact, food contact, medical, pharmaceutical or healthcare applications. Due to the nature of these materials, some variation in colour can be observed between batches.

24 tonne- truckloads
Pellet shape: cylindrical

CAS-No. 9003-07-0

Applications

Injection moulding applications

Special Features

Good stiffness / impact balance and low odour

Good demoulding properties

Physical Properties

| Property | Typical Value | Test Method |
|---|-----------------------|------------------------------|
| <small>Data should not be used for specification work</small> | | |
| Density | 970 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 2 - 15 g/10min | ISO 1133 |
| Tensile Modulus (1 mm/min) | 1.400 MPa | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) | 25 MPa | ISO 527-2 |
| Charpy Impact Strength, notched (23 °C) | 8,0 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 3,0 kJ/m ² | ISO 179/1eA |
| Moisture content (105 °C) | < 0,1 % | Moisture analyser (infrared) |
| Ash content (650 °C) ¹ | 10 % | ISO 1172 |

¹ Refers to filler content

Processing Techniques

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

Following moulding parameters should be used as guidelines:

| | | |
|-------------------|---------------|------------------------------|
| Melt temperature | 210 - 260 °C | |
| Holding pressure | 200 - 500 bar | Minimum to avoid sink marks. |
| Mould temperature | 30 - 40 °C | |
| Injection speed | High | |

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

Ecoplast Kunststoffrecycling GmbH | Untere Aue 21 | A-8410 Wildon | Austria
Tel. +43(0)3182-3355 | Fax +43(0)3182-3355-18
info@ecoplast.com | www.ecoplast.com

mtm plastics GmbH | Bahnhofstraße 106 | D-99759 Niedergebra | Germany
Tel. +49 (0) 36338 / 325-0 | Fax +49 (0) 36338 / 325-25
info@mtm-plastics.eu | www.mtm-plastics.eu



ecoplast



Polypropylene

PP-044

Storage

PP-044 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. To avoid moisture absorption, it is recommended to keep the inner liner sealed.

Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

"Safety data sheet" / "Product safety information sheet"

Recovery and disposal of polyolefins

Information on emissions from processing and fires

Disclaimer

These plastics are subject to material inconsistencies. mtm/Ecoplast makes no warranties which extend beyond the description contained herein and to the best of our knowledge, the information is accurate and reliable as of the date of publication. Because of the multitude of possible influences during the use and application of our products, the information included does not release customers and users from the obligation to examine and test them carefully. Please note that nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose as mtm/Ecoplast do not know the origin of the product. Where necessary, the customer is recommended to obtain a feedstock release from the customer. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of any mtm/Ecoplast product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above. The product(s) mentioned herein are not intended to be used for food contact, drinking water contact, medical, pharmaceutical or healthcare applications and we do not support their use for such applications. Otherwise, our General Terms and Conditions of Sale apply.

Ecoplast Kunststoffrecycling GmbH | Untere Aue 21 | A-8410 Wildon | Austria
Tel. +43(0)3182-3355 | Fax +43(0)3182-3355-18
info@ecoplast.com | www.ecoplast.com

mtm plastics GmbH | Bahnhofstraße 106 | D-99759 Niedergebra | Germany
Tel. +49 (0) 36338 / 325-0 | Fax +49 (0) 36338 / 325-25
info@mtm-plastics.eu | www.mtm-plastics.eu