

Polypropylene BR-44

Subgroup:

Random Copolymer Resin

Description:

BRASKEM BR-44 is a random copolymer developed for thin wall injection moulding applications. BRASKEM BR-44 is characterized by a good balance of stiffness and impact properties, good optical properties and good processability.

Application:

- Thin wall injection moulding
- Housewares
- Lids and Caps

Regulatory Information:

Braskem BR-44 complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520(c)3.1a

The appropriate regulations should be consulted for more detailed information

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	44 g/10 min	44 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength at Yield	4060 psi	27 MPa	ISO 527-2
Tensile Elongation at Yield	12 %	12 %	ISO 527-2
Flexural Modulus (Injection Molded)	152000 psi	1075 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength(23°C)	3 ft lb/in ²	6 kJ/m ²	ISO 179-1/1eA

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (Injection Molded)	10 %	15%	ASTM D1003

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Product Stewardship:

Braskem has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our Product Stewardship program rests with each and every individual involved with Braskem products from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice:

Braskem strongly encourages its customers to review both their manufacturing processes and their applications of Braskem products from the standpoint of human health and environmental quality to ensure that Braskem products are not used in ways for which they are not intended or tested. Braskem personnel are available to answer your questions and to provide reasonable technical support. Braskem product literature, including safety data sheets, should be consulted prior to use of Braskem products. Current safety data sheets are available from Braskem.

Medical Applications Policy:

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Braskem will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

- a. long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours;
- b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
- d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Braskem requests that customers considering use of Braskem products in medical applications notify Braskem so that appropriate assessments may be conducted. Braskem does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Braskem product is safe, lawful, and technically suitable for the intended use. BRASKEM MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY BRASKEM PRODUCT FOR USE IN MEDICAL APPLICATIONS.

Disclaimer:

NOTICE: No freedom from infringement of any patent owned by Braskem or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Braskem assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Braskem to change specifications and/or discontinue production; and (4) although Braskem may from time to time provide samples of such products, Braskem is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

Additional Information:

E-mail: europa.polypropylene@braskem.com

This document is intended for use within Europe, published: 28th Feb 2013