


Datasheet

May/2021

INSPIRE® 364
Description:

BRASKEM Inspire® 364 Performance Polymer is a random copolymer that has been developed for injection molding of thin wall packaging containers and consumer containers e.g. food keeper boxes. BRASKEM Inspire®364 Performance Polymer provides high flowability, excellent optics, superior organoleptic (low taste and odor) and a very good balance of mechanical properties.

Processing conditions:

BRASKEM Inspire®364 is easy to process with injection molding equipment with conditions depending on the type of injection molding conversion technology applied. Recommended melt temperature range for injection molding from 210 to 260°C.

Applications:

Thin wall packaging, Thin wall houseware

Processes:

Thin Wall Injection Molding

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	42

Typical Properties^a

Feature	Method	Units	Values
Density	1183-1	g/cm ³	0.900
Flexural Modulus	178	MPa	1050
Tensile Strength at Yield	527-1	MPa	27
Tensile Elongation at Yield	527-1	%	12
Notched Charpy Impact Strength at 23°C	179	kJ/m ²	5.5
Notched Charpy Impact Strength at 0°C	179	kJ/m ²	1.5
Deflection Temperature under Load at 0.455 MPa	75-1/75-2	°C	80
Vicat Softening Temperature at 10 N	306	°C	127

a) Injection molded specimen according to ISO 294.

Film Properties

Feature	Method	Units	Values
Haze	D 1003	%	8

3) 30 µm thickness film, processed in a 50 mm screw diameter extruder with blow up ratio of 1,3:1 (MD=Machine Direction and TD=Transversal Direction)

1. Storage:

Recommended storage is a cool, dry place protected from direct sunlight for maximum of 24 months after production.

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.

Disclaimer:

- Braskem Netherlands B.V. or any of its affiliates assumes no liability on the suitability of the product as described in this document for any intended use in any application unless separately agreed in a contract. All warranties or merchantability or fitness for a particular purpose are expressly excluded.

- Braskem Netherlands B.V. does not support the use of the product as described in this document in any medical application regardless of the Medical Device Classification (Directive 93/42/EEC). The use of this product into any medical applications regardless of classification or intended use, requires written approval from Braskem Netherlands B.V..
- Braskem Netherlands B.V. assumes no obligation or liability for the information provided in this document.

Notice:

- Braskem Netherlands B.V. strongly recommends before use, to consult the Safety Data Sheet
- Inspire ® is a trademark of Braskem SA
- Braskem Netherlands B.V. registration details are: Braskem Netherlands B.V., Weena 240 / Tower C 9th Floor, 3012 NJ Rotterdam, The Netherlands Commercial Court Rotterdam No.: 24401995 Managing Directors: Hans-Jürgen Buchmann; Alexander van Veen; Axel Maigatter. VAT Number: NL817054716B01.
- If products are described as "experimental" or "developmental":
 - Product specification may not be fully determined;
 - Analysis of hazards and caution in handling and use are required;
 - There is a greater potential for Braskem to change specifications and/or discontinue production, and:
 - Although Braskem may from time to time provide samples of such products, Braskem is not obliged to supply or otherwise commercialize such products for any use or application whatsoever.

For regulatory information, please contact polymer.compliance-europe@braskem.com. For other requests, please contact Braskem via e-mail address: europe.polypropylene@braskem.com.