Braskem Inspire

Datasheet
10/2024

Polypropylene INSPIRE 382

Description:

BRASKEM Inspire® 382 Performance Random Copolymer has been developed for injection molding of thin wall packaging and consumer containers e.g. foodkeeper boxes. BRASKEM Inspire®382 provides very high flowability, excellent optics, superior organoleptics (low taste & odor) and a very good balance of mechanical properties.

Additivation:

Nucleated, Antistatic

Applications:

Thin wall packaging, Consumer Goods

Processes:

Injection molding

Typical Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	70
Density	ISO 1183-1	g/cm³	0.900
Flexural Modulus [a]	ISO 178	MPa	1050
Tensile Strength at Yield [a]	ISO 527-1	MPa	27
Tensile Elongation at Yield [a]	ISO 527-1	%	13
Notched Charpy Impact Strength at 23°C [a]	ISO 179	kJ/m²	5.0
Notched Charpy Impact Strength at 0°C [a]	ISO 179	kJ/m²	1.5
Heat Deflection Temperature under Load at 0.455 MPa [a]	ISO 75-1/75-2	°C	75
Vicat Softening Temperature at 10 N [a]	ISO 306	°C	125
Haze [a]	ASTM D 1003	%	10

a) Injection molded specimen according to ISO 294.

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1. **Storage:**
   Recommended storage is a cool, dry place protected from direct sunlight. High temperatures and high atmospheric humidity during storage may have an impact on product performance.

2. **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.
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3. **Customer Notice:**

   Braskem strongly encourages its customers to review both their manufacturing processes and their applications of Braskem products from a human health and environmental quality standpoint to ensure that Braskem products are not used in ways that are not intended or tested. Braskem product literature, including Safety Data Sheets, should be consulted prior to using Braskem products.

   - Current Safety Data Sheets are available from Braskem
   - Braskem Netherlands B.V. strongly recommends before use, to consult the Safety Data Sheet
   - Inspire® is a trademark of Braskem SA.

   For regulatory information, please contact polymer.compliance-europe@braskem.com