

Polypropylene Inspire® 382

Sub-group:

Performance Random Copolymer

Description:

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

Applications:

- Thin wall packaging
- Thin wall consumer goods e.g. housewares, media packaging

Process:

Injection molding, thin wall injection molding.

Properties:

Physical Properties ^{a)}	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)	70 g/10 min	70 g/10 min	ISO 1133
Flexural Modulus (23°C)	153000 psi	1050 MPa	ISO 178
Tensile Modulus	153000 psi	1050 MPa	ISO 527-2
Tensile Stress at Yield	3920 psi	27 MPa	ISO 527-2
Tensile Strain at Yield	13 %	13 %	ISO 527-2
Charpy Notched Impact Strength (23°C)	2.4 ft·lb/in ²	5 kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength (0°C)	0.71 ft·lb/in ²	1.5 kJ/m ²	ISO 179/1eA
Heat Deflection Temperature (0.45 MPa)	185 °F	85 °C	ISO 75-2/B
Vicat Softening Temperature (10N)	259 °F	126 °C	ISO 306/A

a) These are typical properties from injection molding specimen according to ISO 294 only and are not to be construed as specifications. Users should confirm results by their own tests.

Optical Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (39.4 mil/1 mm injection molded plaque)	9 %	9 %	ASTM D1003

Processing conditions:

BRASKEM Inspire® 382 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.

Regulatory Information:

Inspire® 382 Polypropylene Resin complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA FCN909

The appropriate regulations should be consulted for more detailed information.



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Notice:

- Braskem strongly recommends before use, to consult the Material 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: Marlisa Piovesan Reche Scarton, Gonzalo Andrés Levy Ibarra, Alexander van Veen, Isabel Bernardo Dias de Figueiredo, Hardi Schuck, Srivatsan Iyer VAT Number: NL817054716B01
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