Braskem Inspire

Datasheet
10/2024

Polypropylene Inspire 137

Description:

BRASKEM Polypropylene Inspire® 137 is an Impact Copolymer primarily designed for film applications offering excellent melt stability in blown film manufacturing, low level of inhomogeneity and high impact performance also at minus temperatures.

Applications:

Sheets, Adhesive tapes, Laminates, Profiles, Blow molded containers, blown film

Processes:

Blow Molding, Film Extrusion, Profile Extrusion

Typical Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	0.8
Density	ISO 1183-1	g/cm³	0.900
Flexural Modulus [a]	ISO 178	MPa	1000
Tensile Strength at Yield [a]	ISO 527-1	MPa	24.5
Notched Charpy Impact Strength at 23°C [a]	ISO 179	kJ/m²	40
Notched Charpy Impact Strength at 0°C [a]	ISO 179	kJ/m²	5
Notched Charpy Impact Strength at -20°C [a]	ISO 179	kJ/m²	3
Heat Deflection Temperature under Load at 0.455 MPa [a]	ISO 75-1/75-2	°C	74
Vicat Softening Temperature at 10 N [a]	ISO 306	°C	146

a) Injection molded specimen according to ISO 294.

Film Properties

Feature	Method	Units	Values
Tensile Strength MD/TD	ISO 527-3	MPa	78/33
Haze	D 1003	%	37
Gloss (60°)	DIN EN ISO 2813	%	30
Dart Drop Impact	ASTM D1709	g	180

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. 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.
   - 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 Regulation (2017/745). 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.

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