


Datasheet

May/2021

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.

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.

Applications:

Thin wall packaging, Consumer Goods

Processes:

Injection molding., Thin Wall Injection Molding

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	70

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	%	13
Notched Charpy Impact Strength at 23°C	179	kJ/m ²	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	85
Vicat Softening Temperature at 10 N	306	°C	126

a) Injection molded specimen according to ISO 294.

Film Properties

Feature	Method	Units	Values
Haze	D 1003	%	9

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.

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