


Datasheet

May/2021

Polypropylene INSPIRE® 215

Description:

BRASKEM Inspire® 215 Performance Polymer is a homopolymer resin for sheet extrusion and subsequent thermoforming. BRASKEM Inspire® 215 Performance Polymer has been specifically designed for applications requiring a superior stiffness/impact balance, high temperature resistance, excellent optical performance (clarity, gloss) and organoleptic properties.

Processing conditions:

BRASKEM Inspire® 215 is easy to process with common extrusion equipment with conditions depending on the type of extrusion conversion technology applied. Recommended extrusion temperature from 220 to 250°C; pre-heating temperature: 100 to 110°C; sheet temperature before forming: 150 to 154°C.

Additives:

Antistatic Agent

Applications:

Blister, Pipes, Sheets and Profiles, Vending cups, dairy pots, trays for biscuits, chocolates and fruits

Processes:

Sheets extrusion, Thermoforming

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	2.1

Typical Properties^a

Feature	Method	Units	Values
Density	1183-1	g/cm ³	0.900
Flexural Modulus	178	MPa	1700
Tensile Strength at Yield	527-1	MPa	36
Tensile Elongation at Yield	527-1	%	10
Notched Charpy Impact Strength at 23°C	179	kJ/m ²	5
Deflection Temperature under Load at 0.455 MPa	75-1/75-2	°C	100
Vicat Softening Temperature at 10 N	306	°C	155

a) Injection molded specimen according to ISO 294.

Film Properties

Feature	Method	Units	Values
Haze	D 1003	%	2.5
Gloss 45°	D 2457	-	90

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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