


Datasheet
May/2021

Polypropylene Inspire 137

Description:

BRASKEM Inspire® 137 is a Polypropylene impact copolymer primarily designed mainly for blown film but also for general extrusion purposes. BRASKEM Inspire® 137 Polymer is a high molecular weight resin offering excellent melt stability in blown film manufacturing, low level of inhomogeneity and high impact performance also at minus temperatures.

Processing conditions:

BRASKEM Inspire® 137 is easy to process with common extrusion equipment with conditions depending on the type of extrusion conversion technology applied. Recommended melt temperature range from 200 to 230°C.

Applications:

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

Processes:

Extrusion Blow Molding, General extrusion., Blown film extrusion.

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	0.8

Typical Properties^a

Feature	Method	Units	Values
Density	1183-1	g/cm ³	0.900
Flexural Modulus	178	MPa	1000
Tensile Strength at Yield	527-1	MPa	24.5
Notched Charpy Impact Strength at 23°C	179	kJ/m ²	40
Notched Charpy Impact Strength at 0°C	179	kJ/m ²	5
Notched Charpy Impact Strength at -20°C	179	kJ/m ²	3
Deflection Temperature under Load at 0.455 MPa	75-1/75-2	°C	74
Vicat Softening Temperature at 10 N	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 for maximum of 24 months after production.

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