

**Data Sheet
HSP165G****Polypropylene HSP165G****Sub-group:**

Homopolymer

Description:

BRASKEM HSP165G Polymer is a homopolymer resin designed for staple fiber production and applications requiring high speed spinning filaments. BRASKEM HSP165G Polymer can also be used in the injection molding process. BRASKEM HSP165G Polymer is modified to resist gas fading effect.

Applications:

- Nonwovens for health and hygiene and industrial applications
- Geotextiles
- Upholstery
- Containers

Process:

High speed spinning fiber extrusion and 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)	16.5 g/10 min	16.5 g/10 min	ISO 1133
Flexural Modulus (23°C)	218000 psi	1500 MPa	ISO 178
Tensile Stress at Yield	4930 psi	34 MPa	ISO 527-2
Tensile Strain at Yield	9 %	9 %	ISO 527-2
Charpy Notched Impact Strength (23°C)	1.6 ft·lb/in ²	3.5 kJ/m ²	ISO 179/1eA
Heat Deflection Temperature (0.45 MPa)	185 °F	85 °C	ISO 75-2/B
Vicat Softening Temperature (10N)	311 °F	155 °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.

Processing conditions:

BRASKEM HSP165G is easy to process with common extrusion and injection molding equipment with conditions depending on the type of extrusion or injection molding conversion technology applied. Recommended melt temperature range for injection molding from 210 to 260°C and in fiber extrusion from 220 to 280°C.

Storage:

Recommended storage is a cool, dry place protected from direct sunlight for maximum of 24 months after production.

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HSP165G****Disclaimer:**

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