

**Developmental DH542.01**  
**Developmental Homopolymer**

**Description:**

BRASKEM DH542.01 Polypropylene Resin is a homopolymer designed for the use in staple fiber applications and in general injection molding process. The resin is modified with anti-gas fading additivation.

**Application:**

- Nonwovens for health and hygiene
- Nonwovens and industrial applications (geotextiles, upholstery)

**Process:**

- Extrusion for textile
- General injection moulding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm3	0.900 g/cm3	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	5220 psi	36 MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	9 %	9 %	ISO 527-2
Flexural Modulus (Injection Molded)	218000 psi	1500 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	1.9 ft·lb/in <sup>2</sup>	4 kJ/m <sup>2</sup>	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	181 °F	83 °C	
Vicat Softening Temperature	313 °F	156 °C	ISO 306/A

Notes
These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

\* Injection Molded



**Regulatory Information:**

Braskem DH542.01 Developmental Polypropylene Resin complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520 (c) 3.1a

The appropriate regulations should be consulted for more detailed information.

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**Additional Information:**

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