

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/cm ³	0.900 g/cm ³	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 ²	4 kJ/m ²	

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

