

**Polypropylene H502-25RZ**

**Subgroup:**

Homopolymer Resin

**Description:**

BRASKEM H502-25RZ Polypropylene Resin is a homopolymer resin suitable for the use in spunbonded nonwovens production equipment. BRASKEM H502-25RZ Polypropylene Resin can also be used in other Fiber spinning processes. BRASKEM H502-25RZ Polypropylene Resin is a controlled rheology polypropylene offering excellent processability at melt temperatures between 220 and 280°C.

**Applications:**

- Nonwovens for health and hygiene
- Carpet face yarns
- Geotextiles
- Upholstery
- Filtration
- Agricultural materials

**Process:**

Spunbond nonwovens equipment

**Regulatory Information:**

BRASKEM H502-25RZ Polypropylene Resin complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520(c)1.1

The appropriate regulations should be consulted for more detailed information.

<b>Physical</b>	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ISO 1133

<b>Mechanical</b>	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	4350 psi	30 MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	10 %	10 %	ISO 527-2
Flexural Modulus (Injection Molded)	189000 psi	1300 MPa	ISO 178

<b>Impact</b>	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/eA
73°F (23°C), Injection Molded	0.95 ft·lb/in <sup>2</sup>	2 kJ/m <sup>2</sup>	

<b>Thermal</b>	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	176 °F	80 °C	
Vicat Softening Temperature	298 °F	148 °C	ISO 306/A

<b>Extrusion</b>	Nominal Value (English)	Nominal Value (SI)	
Recommended Melt Temperature	428 to 536 °F	220 to 280 °C	

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

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- c. use as a critical component in medical devices that support or sustain human life; or
- d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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**Additional Information:**

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