

**Polypropylene C705-44NA HP**
**Sub-group:**

Impact Copolymer

**Description:**

BRASKEM C705-44NA HP Polypropylene is a high performance impact copolymer for thin wall injection moulding. The grade combines a high melt flow rate with improved mechanical properties balance combining superior stiffness, good impact resistance and excellent antistatic properties.

**Applications:**

- Thin wall packaging for food, e.g. margarine tubs, yoghurt pots
- Thin wall consumer goods e.g. flower pots, houseware, food boxes
- Caps & closures

**Process:**

- Thin wall injection moulding

Physical	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)	44 g/10 min	44 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	4060 psi	28 MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	7 %	7 %	ISO 527-2
Flexural Modulus (Injection Molded)	210000 psi	1450 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/eA
-4°F (-20°C), Injection Molded	1.9 ft·lb/in <sup>2</sup>	4 kJ/m <sup>2</sup>	
32°F (0°C), Injection Molded	2.4 ft·lb/in <sup>2</sup>	5 kJ/m <sup>2</sup>	
73°F (23°C), Injection Molded	3.3 ft·lb/in <sup>2</sup>	7 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	212 °F	100 °C	
Vicat Softening Temperature	306 °F	152 °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 C705-44NA HP Polypropylene Resin complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA FCN 843

The appropriate regulations should be consulted for more detailed information.

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**Additional Information:**

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