

**Polypropylene C706-21NAHP**
**Sub-group:**

Impact Copolymer

**Description:**

BRASKEM C706-21NAHP Polypropylene Resin is a high performance impact copolymer for thin wall injection moulding. The grade offers efficient processing, high stiffness at attractive impact resistance level including excellent antistatic properties.

**Applications:**

- Thin wall packaging e.g. containers, pails, flower pots
- Consumer goods articles e.g. household/appliances components
- Other injection moulding articles e.g. filters, filter housings

**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)	21 g/10 min	21 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	3920 psi	27.0 MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	8.0 %	8 %	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	2.1 ft·lb/in <sup>2</sup>	4.5 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	3.8 ft·lb/in <sup>2</sup>	8 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	304 °F	151 °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 C706-21NA 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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- use as a critical component in medical devices that support or sustain human life; or
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**Additional Information:**

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