

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 ³	0.900 g/cm ³	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 ²	4 kJ/m ²	
32°F (0°C), Injection Molded	2.4 ft·lb/in ²	5 kJ/m ²	
73°F (23°C), Injection Molded	3.3 ft·lb/in ²	7 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	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

