

Polypropylene C780-07Z

Subgroup:

Impact Copolymer

Description:

BRASKEM C780-07Z Polypropylene Resin is a high performance impact copolymer developed for injection moulding applications. BRASKEM C780-07Z Polypropylene Resin offers an excellent balance of mechanical properties and processability as well as enhanced long term heat stability.

Applications:

- Battery cases
- Molded goods in appliances and automotive

Process:

- 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)	7 g/10 min	7 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	3770 psi	26 MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	10 %	10 %	ISO 527-2
Flexural Modulus (Injection Molded)	174000 psi	1200 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	2.9 ft·lb/in ²	6 kJ/m ²	
32°F (0°C), Injection Molded	3.6 ft·lb/in ²	7.5 kJ/m ²	
73°F (23°C), Injection Molded	5.7 ft·lb/in ²	12 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	190 °F	88 °C	
Vicat Softening Temperature	304 °F	151 °C	ISO 306/A *
Accelerated Oven Ageing (302°F (150°C))	1800 hr	1800 hr	ISO 4577

Notes

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

* Injection Molded

