

Developmental DR7052.01
Sub-group:

Random Copolymer

Description:

BRASKEM DR7052.01 Developmental Resin is a random copolymer for thin wall injection moulding applications. The grade is characterized by a balanced mix of key properties e.g. good stiffness/impact balance, excellent optical properties and very high flowability.

Application:

- Thin wall packaging e.g. container, caps and lids
- Thin wall consumer goods e.g. Housewares, media packaging

Process:

- Thin Wall Injection Molding

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)	42 g/10 min	42 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength at Yield	4060 psi	28 MPa	ISO 527-2
Tensile Elongation at Yield	12 %	12 %	ISO 527-2
Flexural Modulus (Injection Molded)	152000 psi	1050 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength(0°C)	3.8 ft·lb/in ²	2 kJ/m ²	ISO 179-1/1eA
Charpy Notched Impact Strength(23°C)	3 ft lb/in ²	6 kJ/m ²	ISO 179-1/1eA

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
HDT B (0.45 MPa)	180 °F	83 °C	ISO 75/B
Vicat Softening Temperature	261 °F	127 °C	ISO 306/A

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (Injection Molded)	12 %	12%	ASTM D1003

Notes

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

* Injection Molded

