

**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 <sup>3</sup>	0.900 g/cm <sup>3</sup>	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 <sup>2</sup>	2 kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Notched Impact Strength(23°C)	3 ft lb/in <sup>2</sup>	6 kJ/m <sup>2</sup>	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

**Regulatory Information:**

Braskem DR7052.01 complies with:

- European Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520(c)3.1a

The appropriate regulations should be consulted for more detailed information

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**Additional Information:**

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**This document is intended for use within Europe, published: 10<sup>th</sup> Jan 2012**

