

Developmental Polypropylene DR7037.01

Sub-group:

Random Copolymer

Description:

DR7037.01 Developmental Polypropylene Resin is a random copolymer developed for thin wall injection molding and caps and closures applications. DR7037.01 Developmental Resin is characterized by a good balance of stiffness and impact properties, very good optical properties, excellent processability and organoleptics.

Applications:

- Thin wall injection molding
- Housewares
- Media packaging
- Caps, closures and lids

Process:

Injection molding

Properties:

Physical Properties ^{a)}	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)	23 g/10 min	23 g/10 min	ISO 1133
Flexural Modulus (23°C)	174000 psi	1200 MPa	ISO 178
Tensile Stress at Yield	4205 psi	29 MPa	ISO 527-2
Tensile Strain at Yield	12 %	12 %	ISO 527-2
Charpy Notched Impact Strength (23°C)	2.9 ft·lb/in ²	6 kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength (0°C)	0.95 ft·lb/in ²	2 kJ/m ²	ISO 179/1eA
Heat Deflection Temperature (0.45 MPa)	190 °F	88 °C	ISO 75-2/B
Vicat Softening Temperature (10N)	273 °F	134 °C	ISO 306/A

a) These are typical properties from injection molding specimen according to ISO 294 only and are not to be construed as specifications. Users should confirm results by their own tests.

Optical Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (39.4 mil/1 mm injection molded plaque)	8 %	8 %	ASTM D1003

Processing conditions:

BRASKEM DR7037.01 is easy to process with injection molding equipment with conditions depending on the type of injection molding conversion technology applied. Recommended melt temperature range for injection molding from 210 to 260°C.

Storage:

Recommended storage is a cool, dry place protected from direct sunlight for maximum of 24 months after production.

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