

Developmental Polypropylene DR155.01

Sub-group:

Performance Random Copolymer

Description:

DR155.01 Performance Random Copolymer has been specifically developed extrusion blow molding and extrusion blown film applications. The polymer combines features like good processing, excellent mechanical property balance and high clarity.

Applications:

- Specialty film e.g. multilayer component, shrink film
- Rigid packaging e.g. squeezable bottles

Process:

Extrusion blow molding and blown film.

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)	1.7 g/10 min	1.7 g/10 min	ISO 1133
Flexural Modulus (23°C)	131000 psi	900 MPa	ISO 178
Tensile Stress at Yield	4350 psi	30 MPa	ISO 527-2
Tensile Strain at Yield	12 %	12 %	ISO 527-2
Charpy Notched Impact Strength (23°C)	10.5 ft·lb/in ²	22 kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength (0°C)	1.2 ft·lb/in ²	2.5 kJ/m ²	ISO 179/1eA
Heat Deflection Temperature (0.45 MPa)	176 °F	80 °C	ISO 75-2/B
Vicat Softening Temperature (10 N)	257 °F	125 °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)	12%	12%	ASTM D1003
Gloss (45°, 1.97 mil/50.0 µm cast film)	86	86	ASTM D2457

Processing conditions:

BRASKEM DR155.01 is easy to process with common extrusion equipment with conditions depending on the type of extrusion conversion technology applied.

Recommended extrusion temperature from 180 to 200°C; melting temperature: 142 °C.

Storage:

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

Customer Notice:

Braskem strongly encourages its customers to review both their manufacturing processes and their applications of Braskem products from the standpoint of human health and environmental quality to ensure

that Braskem products are not used in ways for which they are not intended or tested. Braskem personnel are available to answer your questions and to provide reasonable technical support. Braskem product literature, including safety data sheets, should be consulted prior to use of Braskem products. Current safety data sheets are available from Braskem.

Disclaimer:

- Braskem Netherlands B.V. or any of its affiliates assumes no liability on the suitability of the product as described in this document for any intended use in any application unless separately agreed in a contract. All warranties or merchantability or fitness for a particular purpose are expressly excluded.
- Braskem Netherlands B.V. does not support the use of the product as described in this document in any medical application regardless of the Medical Device Classification (Directive 93/42/EEC). The use of this product into any medical applications regardless of classification or intended use, requires written approval from Braskem Netherlands B.V..
- Braskem Netherlands B.V. assumes no obligation or liability for the information provided in this document.

Notice:

- Braskem strongly recommends before use, to consult the Material Safety Data Sheet
- Inspire® is a trademark of Braskem SA
- Braskem Netherlands B.V. registration details are: Braskem Netherlands B.V., Weena 240 / Tower C 9th Floor, 3012 NJ Rotterdam, The Netherlands Commercial Court Rotterdam No.: 24401995 Managing Directors: : Hans-Jürgen Buchmann; Alexander van Veen; Axel Maigatter. VAT Number: NL817054716B01
- If products are described as “experimental” or “developmental”:
 1. Product specification may not be fully determined;
 2. Analysis of hazards and caution in handling and use are required;
 3. There is a greater potential for Braskem to change specifications and/or discontinue production, and;
 4. Although Braskem may from time to time provide samples of such products, Braskem is not obliged to supply or otherwise commercialize such products for any use or application whatsoever.

For regulatory information, please contact polymer.compliance-europe@braskem.com. For other requests, please contact Braskem via e-mail address: europe.polypropylene@braskem.com.

This document is intended for use in Europe, published 14th August 2019.