Braskem

Datasheet
07/04/2022

Linear Low Density Polyethylene ML4400N

Description:

ML4400N is a LLDPE resin butene comonomer especially developed for the rotational molding process in the application of water tank up to 2000L (inclusive).

Technical Characteristics:

- Good surface finishing
- High stiffness
- Excellent processability
- UV radiation and heat stabilization
- Indicated for use on colored pieces

Additives:

- Weathering resistance UV8 and antioxidants

Applications:

Watter tanks, General use articles

Processes:

Rotational Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	4.1
Density	D 792	g/cm³	0.939

Typical Properties:

Plaque properties

Feature	Method	Units	Values
Elongation at Yield (a)	D 638	%	13
Elongation at Break (a)	D 638	%	> 1000
Tensile Strength at Yield (a)	D 638	MPa	21
Flexural Modulus - 1% Secant (b)	D 790	MPa	670
Environmental Stress Cracking Resistance - Notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	D 1693	h/F50	28
Environmental Stress Cracking Resistance - Notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	D 1693	h/F50	300
Deflection Temperature under Load at 0,455 MPa (b)	D 648	°C	60
Deflection Temperature under Load at 1,82 MPa (b)	D 648	°C	40
Impact Strength - Thickness 3,17 mm (c)	ARM	J	40

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4702.
Thickness of test piece: a) 2 mm; b) 3 mm; c) Rotomolded plaque. Test temperature -40°C.

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
3. Any application information about the Product does not mean that Braskem knows or has validated the productive process of the Client/Purchaser or the adequacy of the Product for the intended application. All warranties of merchantability or fitness for a particular purpose, express or implied, are expressly excluded.
4. The information provided herein is of the date hereof and Braskem may update, revise or amend the information contained herein at any time and without previous notice. The Client/Purchaser shall consult www.braskem.com to verify any updates to this information.
5. For regulatory information associated with the Product and its source, please consult the Regulatory Information Sheet (RIS). For other requests, please contact Braskem's Technical Services area.

6. The information contained herein is provided based on the best of Braskem's knowledge, indicating typical values of the properties of the Product, and such values shall not be considered absolute or as a guarantee.