Braskem

Datasheet
Aug/21

High Density Polyethylene HT4219

Description:

HT4219 is a high density polyethylene developed especially for the production of thin-walled irrigation pipes with excellent processability and low gel content, as well as in the production of medium and high wall thickness pipes. The resin can be used neat or in blends with LLDPE and HDPE.

Applications:

Pipes for irrigation

Processes:

General extrusion.

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/21.6kg)	ASTM D 1238	g/10 min	20
Density	ASTM D 792	g/cm³	0.943

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Melt Flow Rate (190°C/2,16kg)	ASTM D 1238	g/10 min	0.15
Tensile Strength at Yield (a)	ASTM D 638	MPa	23
Elongation at Yield (a)	ASTM D 638	%	10
Tensile Strength at Break (a)	ASTM D 638	MPa	30
Elongation at Break (a)	ASTM D 638	%	1480
Flexural Modulus - 2% Secant (b)	ASTM D 790	MPa	860
Hardness (c)	ASTM D 2240	-	62
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	> 1000
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	58
Vicat Softening Temperature at 10 N (b)	ASTM D 1525	°C	122

[1] Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

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.