Braskem I'm green BIO-BASED

Data Sheet
Fev/2021

High Density Polyethylene SGE7252NS

Description:

SGE7252NS is a bimodal high density polyethylene developed for the manufacturing of caps and closures to carbonated soft drinks. This grade offers a good balance between chemical and mechanical resistance, and good processability. The minimum biobased content of this grade is 96%, determined according to ASTM D6866.

Aplicações:

Caps for water, Caps for carbonated soft drinks

Processos:

Injection molding

Control Properties:

Característica	Método	Unidades	Valores
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	2.0
Density	ASTM D 792	g/cm³	0.952

Typical Properties - Plaque[1]:

Plaque Properties

Característica	Método	Unidades	Valores
Tensile Strength at Yield (a)	ASTM D 638	MPa	27
Tensile Strength at Break (a)	ASTM D 638	MPa	36
Flexural Modulus - 2% Secant (b)	ASTM D 790	MPa	1110
Hardness (c)	ASTM D 2240	-	62
Izod Impact Strength (b)	ASTM D 256	J/m	65
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	35
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	ASTM D 1693	h/F50	65
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	65
Vicat Softening Temperature at 10 N (b)	ASTM D 1525	°C	126

[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.
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