Braskem I'm green BIO-BASED

Data Sheet
21/10/2024

High Density Polyethylene SGD4960

Description:

SGD4960 is a high density polyethylene homopolymer especially designed for blow molding processing. It features high density and stiffness combined with high impact resistance. The minimum biobased carbon content of this grade is 96%, determined according to ASTM D6866.

Aplicações:

Caps, Dairy based products packaging, Lubricanting oil packaging, Liquid food packaging, bottles for ethylic alcohol, Food packaging, Cosmetic packaging

Processos:

Extrusion Blow Molding

Control Properties:

Característica	Método	Unidades	Valores
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	0.7
Density	ASTM D 792	g/cm³	0.962

Typical Properties - Plaque[1]:

Plaque Properties

Característica	Método	Unidades	Valores
Tensile Strength at Yield (a)	ASTM D 638	MPa	32
Tensile Strength at Break (a)	ASTM D 638	MPa	22
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1600
Hardness (c)	ASTM D 2240	Shore A / D	64
Izod Impact Strength (b)	ASTM D 256	J/m	89
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	19
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	ASTM D 1693	h/F50	24
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	79
Vicat Softening Temperature at 10 N (b)	ASTM D 1525	°C	128

[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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