High Density Polyethylene STGE7252NS

Description:

STGE7252NS 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 54%, determined according to ASTM D6866.

Applications:

Caps for water, Caps for carbonated soft drinks

Processes:

Compression Molding, Injection Molding

Control Properties:

Feature	Method	Units	Values
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

Feature	Method	Units	Values
Tensile Strength at Yield (a)	ASTM D 638	MPa	27
Tensile Strength at Break (a)	ASTM D 638	MPa	36
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1200
Shore D 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. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
2. For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
3. For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
4. The mentioned values in this report can be changed at any moment without Braskem previous communication.