


Datasheet
17/01/2019

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.

Applications:

Dairy based products packaging, Lubricating oil packaging, Liquid food packaging, bottles for ethylic alcohol

Processes:

Extrusion Blow Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.7
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	50
Density	D 792	g/cm ³	0.962

Typical Properties - Plaque¹:

Plaque Properties

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

- 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.
- For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
- For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.