High Density Polyethylene SGF4950

Description:

SGF4950 is a high-density polyethylene copolymer, developed for the blow-molding segment. It shows well balanced properties between impact and stiffness, combined with high environmental stress cracking resistance and processability. The minimum biobased content of this grade is 96%, determined according to ASTM D6866.

Applications:

Pharmaceutical products packaging

Processes:

Compression Molding, Extrusion Blow Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.34
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	28
Density	D 792	g/cm³	0.956

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	30
Tensile Strength at Break (a)	D 638	MPa	30
Flexural Modulus - 1% Secant (b)	D 2240	MPa	1350
Shore D Hardness (c)	D 1693	-	63
Izod Impact Strength (b)	D 256	J/m	150
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	D 1693	h/F50	40
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	D 1693	h/F50	70
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	70
Vicat Softening Temperature at 10 N (b)	D 1525	°C	127

[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.