

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 carbon content of this grade is 96%, determined according to ASTM D6866.

Applications:

Tissue and hygiene packaging, Blow molding small volumes, Cosmetic packaging

Processes:

Compression Molding, Extrusion Blow Molding

Control Properties:

Characteristic	Method	Units	Values
Density	ISO 1183-1	g/cm ³	0.956
Melt Flow Rate (190°C/2,16 kg)	ISO 1133	g/10 min	0.34

Typical Properties - Plaque¹:

Plaque Properties

Characteristic	Method	Units	Values
Tensile Strength at Yield (b)	ISO 527	MPa	29
Tensile Strength at Break (b)	ISO 527	MPa	20
Flexural Modulus Chord 0.05-0.25 % (b)	ISO 178	MPa	1290
Izod Impact Strength 23 °C (b)	ISO 180	kJ/m ²	8
Vicat Softening Temperature at 10 N (a)	ISO 306	°C	128
Deflection Temperature Under Load at 0.455 MPa (b)	ISO 75	°C	77

¹ Test specimens prepared from compression molded sheet made according to ISO 293. Plaque Thickness: a) 3 mm b) 4 mm c) 6 mm

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.