

## 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
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.34
Density	D 792	g/cm <sup>3</sup>	0.956

### Typical Properties:

Plaque Properties

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/21,6kg)	ASTM D 1238	g/ 10 min	28
Tensile Strength at Yield (a)	ASTM D 638	MPa	30
Tensile Strength at Break (a)	ASTM D 638	MPa	30
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1250
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m <sup>2</sup>	110
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	30
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	70
Vicat Softening Temperature at 10 N (b)	ASTM D 1525	°C	127

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4703. Thickness of test piece: a) 2 mm; b) 3 mm.

### 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.