

## High Density Polyethylene SGF4950HS

**Description:**

SGF4950HS is a High Density Polyethylene, copolymer, offering an outstanding combination of good processability and excellent stress cracking resistance (ESCR). It is recommended for the production of containers, flasks and bottles up to 30 liters for the transport of chemical products. The minimum biobased carbon content of this grade is 95%, determined according to ASTM D6866.

**Applications:**

Small automotive tanks, Containers from 2 to 20 L for Household and Industrial Chemicals, Air ducts

**Processes:**

Extrusion Blow Molding

**Control Properties:**

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.21
Density	D 792	g/cm <sup>3</sup>	0.951

**Typical Properties:**

Plaque Properties

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/21,6kg)	ASTM D 1238	g/ 10 min	20
Tensile Strength at Yield (a)	ASTM D 638	MPa	25
Tensile Strength at Break (a)	ASTM D 638	MPa	35
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1100
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m <sup>2</sup>	110
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	70
FNCT	Braskem	min	300

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:**

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.