

**High Density Polyethylene SGF4960****Description:**

SGF4960 is a homopolymer high-density polyethylene, developed for the blow-molding segment with 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:**

Blow molding small volumes, Dairy based products packaging, Juice packaging, Food packaging, bottles for ethylic alcohol, toys

**Processes:**

Extrusion Blow Molding

**Control Properties:**

Feature	Method	Units	Values
Density	ISO 1183-1	g/cm <sup>3</sup>	0.962
Melt Flow Rate (190°C/2,16 kg)	ISO 1133	g/10 min	0.34

**Typical Properties - Plaque<sup>1</sup>:**

Plaque Properties

Feature	Method	Units	Values
Tensile Strenght at Yeld (b)	ISO 527	MPa	30
Tensile Strenght at Break (b)	ISO 527	MPa	17
Flexural modulus Chord 0.05-0.25 % (b)	ISO 178	MPa	1410
Izod Impact Strength 23 °C (b)	ISO 180	kJ/m <sup>2</sup>	9
Vicat Softening Temperature at 10 N (a)	ISO 306	°C	128
Deflection Temperature Under Load at 0.455 MPa (b)	ISO 75	°C	70

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

