Data Sheet
02/03/2020

# 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.

## Aplicações:

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

## Processos:

Extrusion Blow Molding

## Control Properties:

| Característica | Método | Unidades | Valores |
|---|---|---|---|
| Melt Flow Rate (190°C/2.16kg) | D 1238 | g/10 min | 0.21 |
| Density | D 792 | g/cm³ | 0.951 |

## Typical Properties:

Plaque Properties

| Característica | Método | Unidades | Valores |
|---|---|---|---|
| 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/m² | 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. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
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