


**Datasheet**

17/01/2019

## High Density Polyethylene SGE7252XP

**Description:**

SGE7252XP is a bimodal high density polyethylene specially developed to manufacturing of caps and closures to beverages and soft drinks with low CO<sub>2</sub> content. This grade offers a good balance between chemical and mechanical resistance, good processability and organoleptic properties. The minimum biobased content of this grade is 94%, determined according to ASTM D6866.

**Applications:**

Caps for carbonated soft drinks

**Processes:**

Compression Molding

**Control Properties:**

| Feature                       | Method | Units             | Values |
|-------------------------------|--------|-------------------|--------|
| Melt Flow Rate (190°C/2.16kg) | D 1238 | g/10 min          | 2.1    |
| Density                       | D 792  | g/cm <sup>3</sup> | 0.950  |

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

Plaque Properties

| Feature                                                                             | Method | Units | Values |
|-------------------------------------------------------------------------------------|--------|-------|--------|
| Tensile Strength at Yield (a)                                                       | D 638  | MPa   | 26     |
| Elongation at Yield (a)                                                             | D 638  | %     | 9      |
| Tensile Strength at Break (a)                                                       | D 638  | MPa   | 32     |
| Elongation at Break (a)                                                             | D 638  | %     | 400    |
| Flexural Modulus - 1% Secant (b)                                                    | D 790  | MPa   | 1100   |
| Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a) | D 1693 | h/F50 | 15     |

<sup>1</sup> Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

**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.