


**Datasheet**

17/01/2019

## High Density Polyethylene SHD7255LS-L

**Description:**

SHD7255LS-L is a high-density polyethylene, developed for the injection molding with good tenacity and impact properties combined with a good stiffness. It presents a ratio between melt flow and density that provides excellent mechanical properties. This resin has additives against the action of ultraviolet radiation. The minimum biobased carbon content of this grade is 94%, determined according to ASTM D6866.

**Applications:**

Horticultural Boxes, Fish crates, General use crates, Industrial crates

**Control Properties:**

| Feature                       | Method | Units             | Values |
|-------------------------------|--------|-------------------|--------|
| Melt Flow Rate (190°C/2.16kg) | D 1238 | g/10 min          | 4.5    |
| Density                       | D 792  | g/cm <sup>3</sup> | 0.954  |

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

Plaque Properties

| Feature                                            | Method | Units | Values |
|----------------------------------------------------|--------|-------|--------|
| Tensile Strength at Yield (a)                      | D 638  | MPa   | 27     |
| Tensile Strength at Break (a)                      | D 638  | MPa   | 7.9    |
| Flexural Modulus - 1% Secant (b)                   | D 2240 | MPa   | 1150   |
| Shore D Hardness (c)                               | D 2240 | -     | 60     |
| Izod Impact Strength (b)                           | D 256  | J/m   | 45     |
| Deflection Temperature under Load at 0.455 MPa (b) | D 648  | °C    | 69     |
| Vicat Softening Temperature at 10 N (b)            | D 1525 | °C    | 124    |

<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.