

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 content of this grade is 94%, determined according to ASTM D6866.

Application:

Boxes for frozen food and horticultural products;
Industrial containers and boxes for general use.

Process:

Injection Molding.

Control Properties:

| | ASTM Methods | Units | Values |
|---------------------------|--------------|-------------------|--------|
| Melt Flow Rate (190/2.16) | D 1238 | g/10 min | 4.5 |
| Density | D 792 | g/cm ³ | 0.954 |

Typical Properties:

Plaque Properties^a

| | ASTM Methods | Units | Values |
|---|--------------|-------|--------|
| Tensile Strength at Yield | D 638 | MPa | 27 |
| Flexural Modulus – 1% Secant | D 790 | MPa | 1270 |
| Shore D Hardness | D 2240 | - | 63 |
| Notched Izod Impact Strength | D 256 | J/m | 45 |
| Environmental Stress Cracking Resistance ^b | D 1693 | h/F50 | < 5 |
| Vicat Softening Temperature at 10 N | D 1525 | °C | 127 |
| Deflection Temperature under Load at 0.455 MPa | D 648 | °C | 74 |

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 100% Igepal; 50°C

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.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- Unless specified, Braskem does not recommend the use of this grade for the fabrication of packages, parts or any other type of product designed to medical and/or pharmaceutical applications.
- The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.