

# Braskem PE SHC7260LSL

High Density Polyethylene

Braskem

Message:

SHC7260LS-L is a high-density polyethylene, developed for the injection molding which presents high hardness and stiffness, besides low tendency to warpage. This resin has additives against the ultraviolet radiation action. The minimum biobased content of this grade is 94%, determined according to ASTM D6866.

Application:  
Boxes for frozen food and agricultural products, industrial containers and boxes for general use, Safety Helmets, Toilet seats, Housewares, Toys, Lids, Caps & Closures, Pallets and Boxes for beverages bottles.

Process:  
Injection Molding.

| General Information  |                          |                   |             |
|--|--------------------------|-------------------|-------------|
| Additive   | UV stabilizer            |                   |             |
| Features   | UV Stabilized            |                   |             |
|  | Low warpage              |                   |             |
|  | Rigidity, high           |                   |             |
|  | Updatable resources      |                   |             |
|  | High hardness            |                   |             |
| Uses   | Pallets                  |                   |             |
|  | Safety helmet            |                   |             |
|  | Cover                    |                   |             |
|  | Industrial container     |                   |             |
|  | Shield                   |                   |             |
|  | Household goods          |                   |             |
|  | Agricultural application |                   |             |
|  | Shell                    |                   |             |
|  | Toys                     |                   |             |
| Agency Ratings   | FDA 21 CFR 177.1520      |                   |             |
| Processing Method  | Injection molding        |                   |             |
| Physical   | Nominal Value            | Unit              | Test Method |
| Specific Gravity   | 0.959                    | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)  | 7.2                      | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50) | < 4.00                   | hr                | ASTM D1693  |
| Biobased Content   | 94                       | %                 | ASTM D6866  |
| Hardness   | Nominal Value            | Unit              | Test Method |
| Durometer Hardness (Shore D, Compression Molded)   | 64                       |                   | ASTM D2240  |

| Mechanical   | Nominal Value | Unit | Test Method             |
|--|---------------|------|-------------------------|
| Tensile Strength (Yield, Compression Molded)                                 | 30.0          | MPa  | ASTM D638               |
| Tensile Elongation (Yield, Compression Molded)                               | 7.5           | %    | ASTM D638               |
| Flexural Modulus - 1% Secant (Compression Molded)                            | 1350          | MPa  | ASTM D790               |
| Impact   | Nominal Value | Unit | Test Method             |
| Notched Izod Impact (Compression Molded)                                     | 35            | J/m  | ASTM D256               |
| Thermal  | Nominal Value | Unit | Test Method             |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded) | 76.0          | °C   | ASTM D648               |
| Vicat Softening Temperature  | 126           | °C   | ASTM D1525 <sup>1</sup> |
| NOTE   |               |      |                         |

1. 压力1 (10N)

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