

High Density Polyethylene  
**Lotte Chemical Corporation**

## Product Description

High Productivity, Good stiffness

## General

|                           |                                        |                      |                                    |
|---------------------------|----------------------------------------|----------------------|------------------------------------|
| Material Status           | • Commercial: Active                   |                      |                                    |
| Literature <sup>1</sup>   | • <b>Technical Datasheet (English)</b> |                      |                                    |
| Search for UL Yellow Card | • <b>Lotte Chemical Corporation</b>    |                      |                                    |
| Availability              | • Asia Pacific<br>• Asia Pacific       | • Europe<br>• Europe | • North America<br>• North America |
| Features                  | • Fast Molding Cycle                   | • Good Stiffness     |                                    |
| Uses                      | • Crates                               | • Household Goods    | • Thin-walled Parts                |
| RoHS Compliance           | • RoHS Compliant                       |                      |                                    |

| Physical                                        | Nominal Value Unit | Test Method |
|-------------------------------------------------|--------------------|-------------|
| Density                                         | 0.959 g/cm³        | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)       | 20 g/10 min        | ASTM D1238  |
| Environmental Stress-Cracking Resistance<br>F50 | 2.00 hr            | ASTM D1693  |

| Mechanical                 | Nominal Value Unit | Test Method |
|----------------------------|--------------------|-------------|
| Tensile Strength (Yield)   | 24.5 MPa           | ASTM D638   |
| Tensile Elongation (Break) | > 300 %            | ASTM D638   |
| Flexural Modulus           | 1270 MPa           | ASTM D790   |

| Impact                     | Nominal Value Unit | Test Method |
|----------------------------|--------------------|-------------|
| Notched Izod Impact (23°C) | 39 J/m             | ASTM D256   |

| Thermal                     | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Vicat Softening Temperature | 120 °C             | ASTM D1525  |

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.