

# DOW™ HDPE 35057L

High Density Polyethylene Resin  
The Dow Chemical Company

## Technical Data

### Product Description

HDPE 35057L is a Bimodal High Density Polyethylene intended for Blow Molding applications. This resin exhibit a good balance between stiffness and Environmental Stress Crack Resistance (ESCR). It is especially suitable for the production of bottles, containers and technical hollow articles

#### Applications:

- Containers for:
  - Household & industrial chemicals (e.g. detergents and softeners)
  - Personal care products and Cosmetics
  - Food products
  - Mineral oils
  - Car care products
- Toys
- Automotive parts

#### Complies with:

- FDA regulation 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

### General

|                           |                                            |                               |
|---------------------------|--------------------------------------------|-------------------------------|
| Material Status           | • Commercial: Active                       |                               |
| Literature <sup>1</sup>   | • <a href="#">Technical Datasheet</a>      |                               |
| Search for UL Yellow Card | • <a href="#">The Dow Chemical Company</a> |                               |
| Availability              | • Latin America                            |                               |
| Agency Ratings            | • EU No 10/2011                            | • FDA 21 CFR 177.1520(c) 3.2a |
| Forms                     | • Pellets                                  |                               |

| Physical                                 | Nominal Value Unit      | Test Method |
|------------------------------------------|-------------------------|-------------|
| Specific Gravity                         | 0.956 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                |                         | ASTM D1238  |
| 190°C/2.16 kg                            | 0.29 g/10 min           |             |
| 190°C/21.6 kg                            | 27 g/10 min             |             |
| Environmental Stress-Cracking Resistance |                         | ASTM D1693  |
| 50°C, 100% Igepal, F50                   | > 200 hr                |             |

| Mechanical                   | Nominal Value Unit | Test Method |
|------------------------------|--------------------|-------------|
| Tensile Strength             |                    | ASTM D638   |
| Yield                        | 25.0 MPa           |             |
| Break                        | 38.0 MPa           |             |
| Tensile Elongation (Break)   | 950 %              | ASTM D638   |
| Flexural Modulus - 2% Secant | 860 MPa            | ASTM D790   |

| Impact                     | Nominal Value Unit | Test Method |
|----------------------------|--------------------|-------------|
| Notched Izod Impact (23°C) | 130 J/m            | ASTM D256   |

| Hardness                     | Nominal Value Unit | Test Method |
|------------------------------|--------------------|-------------|
| Durometer Hardness (Shore D) | 66                 | ASTM D2240  |

| Thermal                     | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Vicat Softening Temperature | 128 °C             | ASTM D1525  |

### Notes

<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.