

# DOW™ HDPE NG6997

High Density Polyethylene Resin

The Dow Chemical Company

## Technical Data

### 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          | 0.944 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) |                         | ASTM D1238  |
| 190°C/21.6 kg             | 11 g/10 min             |             |
| 190°C/5.0 kg              | 0.38 g/10 min           |             |

| Films                             | Nominal Value Unit     | Test Method     |
|-----------------------------------|------------------------|-----------------|
| Film Thickness - Tested           | 380 µm                 |                 |
| Film Puncture Resistance (380 µm) | 4.96 J/cm <sup>3</sup> | Internal Method |
| Tensile Strength                  |                        | ASTM D882       |
| MD: Yield, 380 µm                 | 31.0 MPa               |                 |
| TD: Yield, 380 µm                 | 28.0 MPa               |                 |
| MD: Break, 380 µm                 | 49.9 MPa               |                 |
| TD: Break, 380 µm                 | 33.0 MPa               |                 |
| Tensile Elongation                |                        | ASTM D882       |
| MD: Break, 380 µm                 | 260 %                  |                 |
| TD: Break, 380 µm                 | 530 %                  |                 |
| Dart Drop Impact (380 µm)         | 55 g                   | ASTM D1709A     |
| Elmendorf Tear Strength           |                        | ASTM D1922      |
| MD: 380 µm                        | 5.0 g                  |                 |
| TD: 380 µm                        | 50 g                   |                 |

| Extrusion        | Nominal Value Unit |
|------------------|--------------------|
| Melt Temperature | 211 °C             |

### 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.