

# DOW™ LDPE 682S

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW™ LDPE 682S is a Low Density Polyethylene Resin material. It is available in Latin America.

Typical application of DOW™ LDPE 682S: Food Contact Applications

| General Information                       |                            |                   |             |
|-------------------------------------------|----------------------------|-------------------|-------------|
| Agency Ratings                            | EU No 10/2011              |                   |             |
|                                           | FDA 21 CFR 177.1520(c) 2.2 |                   |             |
| Forms                                     | Pellets                    |                   |             |
| Physical                                  | Nominal Value              | Unit              | Test Method |
| Specific Gravity                          | 0.922                      | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.70                       | g/10 min          | ASTM D1238  |
| Mechanical                                | Nominal Value              | Unit              | Test Method |
| Coefficient of Friction                   |                            |                   | ASTM D1894  |
| vs. Itself - Dynamic                      | 0.57                       |                   |             |
| vs. Itself - Static                       | 0.67                       |                   |             |
| Films                                     | Nominal Value              | Unit              | Test Method |
| Film Thickness - Tested                   | 50                         | µm                |             |
| Film Puncture Resistance (50 µm)          | 5.00                       | J/cm <sup>3</sup> |             |
| Secant Modulus                            |                            |                   | ASTM D882   |
| 2% Secant, MD : 50 µm                     | 174                        | MPa               |             |
| 2% Secant, TD : 50 µm                     | 189                        | MPa               |             |
| Tensile Strength                          |                            |                   | ASTM D882   |
| MD : Yield, 50 µm                         | 11.0                       | MPa               |             |
| TD : Yield, 50 µm                         | 11.0                       | MPa               |             |
| MD : Break, 50 µm                         | 23.0                       | MPa               |             |
| TD : Break, 50 µm                         | 19.0                       | MPa               |             |
| Tensile Elongation                        |                            |                   | ASTM D882   |
| MD : Break, 50 µm                         | 490                        | %                 |             |
| TD : Break, 50 µm                         | 660                        | %                 |             |
| Dart Drop Impact (50 µm)                  | 140                        | g                 | ASTM D1709A |
| Elmendorf Tear Strength                   |                            |                   | ASTM D1922  |
| MD : 50 µm                                | 200                        | g                 |             |
| TD : 50 µm                                | 280                        | g                 |             |
| Optical                                   | Nominal Value              | Unit              | Test Method |
| Gloss (45°, 50.0 µm)                      | 55                         |                   | ASTM D2457  |
| Haze (50.0 µm)                            | 10                         | %                 | ASTM D1003  |

| Extrusion        | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 220           | °C   |

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