

# DOW™ LDPE 219M

Low Density Polyethylene Resin  
The Dow Chemical Company

Message:

DOW™ LDPE 219M is a Low Density Polyethylene Resin material. It is available in Latin America.  
Typical application of DOW™ LDPE 219M: Food Contact Applications

| General Information                       |                            |                   |                 |
|-------------------------------------------|----------------------------|-------------------|-----------------|
| Agency Ratings                            | FDA 21 CFR 177.1520(c) 2.1 |                   |                 |
| Forms                                     | Pellets                    |                   |                 |
| Physical                                  | Nominal Value              | Unit              | Test Method     |
| Specific Gravity                          | 0.921                      | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0                        | g/10 min          | ASTM D1238      |
| Mechanical                                | Nominal Value              | Unit              | Test Method     |
| Coefficient of Friction                   |                            |                   | ASTM D1894      |
| vs. Itself - Dynamic                      | 0.55                       |                   |                 |
| vs. Itself - Static                       | 0.71                       |                   |                 |
| Films                                     | Nominal Value              | Unit              | Test Method     |
| Film Thickness - Tested                   | 50                         | µm                |                 |
| Film Puncture Resistance (50 µm)          | 4.00                       | J/cm <sup>3</sup> | Internal Method |
| Tensile Strength                          |                            |                   | ASTM D882       |
| MD : Yield,50 µm                          | 11.0                       | MPa               |                 |
| TD : Yield,50 µm                          | 12.0                       | MPa               |                 |
| MD : Break, 50 µm                         | 23.0                       | MPa               |                 |
| TD : Break, 50 µm                         | 19.0                       | MPa               |                 |
| Tensile Elongation                        |                            |                   | ASTM D882       |
| MD : Break, 50 µm                         | 600                        | %                 |                 |
| TD : Break, 50 µm                         | 830                        | %                 |                 |
| Dart Drop Impact (50 µm)                  | 96                         | g                 | ASTM D1709A     |
| Elmendorf Tear Strength                   |                            |                   | ASTM D1922      |
| MD : 50 µm                                | 410                        | g                 |                 |
| TD : 50 µm                                | 350                        | g                 |                 |
| Optical                                   | Nominal Value              | Unit              | Test Method     |
| Gloss (45°, 50.0 µm)                      | 62                         |                   | ASTM D2457      |
| Haze (50.0 µm)                            | 8.0                        | %                 | ASTM D1003      |
| Extrusion                                 | Nominal Value              | Unit              |                 |
| Melt Temperature                          | 193                        | °C                |                 |

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