

# DOW™ HDPE 90052L

High Density Polyethylene Resin  
The Dow Chemical Company

Message:

DOW™ HDPE 90052L is a High Density Polyethylene Resin material. It is available in Latin America.  
Important attributes of DOW™ HDPE 90052L are:  
Antiblock  
Processing Aid  
Slip  
Typical application of DOW™ HDPE 90052L: Food Contact Applications

| General Information              |                             |                   |             |
|----------------------------------|-----------------------------|-------------------|-------------|
| Agency Ratings                   | FDA 21 CFR 177.1520(c) 3.2a |                   |             |
| Forms                            | Pellets                     |                   |             |
| Physical                         | Nominal Value               | Unit              | Test Method |
| Specific Gravity                 | 0.952                       | 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                     | 0.35                        | g/10 min          |             |
| Films                            | Nominal Value               | Unit              | Test Method |
| Film Thickness - Tested          | 15                          | µm                |             |
| Film Puncture Resistance (15 µm) | 5.00                        | J/cm <sup>3</sup> | ASTM D5748  |
| Tensile Strength                 |                             |                   | ASTM D882   |
| MD : Yield, 15 µm                | 33.0                        | MPa               |             |
| TD : Yield, 15 µm                | 30.0                        | MPa               |             |
| MD : Break, 15 µm                | 78.0                        | MPa               |             |
| TD : Break, 15 µm                | 44.0                        | MPa               |             |
| Tensile Elongation               |                             |                   | ASTM D882   |
| MD : Break, 15 µm                | 530                         | %                 |             |
| TD : Break, 15 µm                | 610                         | %                 |             |
| Dart Drop Impact (15 µm)         | 140                         | g                 | ASTM D1709A |
| Elmendorf Tear Strength          |                             |                   | ASTM D1922  |
| MD : 15 µm                       | 9.0                         | g                 |             |
| TD : 15 µm                       | 110                         | g                 |             |
| Extrusion                        | Nominal Value               | Unit              |             |
| Melt Temperature                 | 211                         | °C                |             |

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