

## Technical Data Sheet

### *Petrothene* NA338202

Low Density Polyethylene



#### Product Description

*Petrothene* NA338202 is a LDPE homopolymer resin selected by customers for household film and other applications that require high clarity and good stiffness combined with low COF. It contains a fast bloom slip for high speed processing.

**Application** Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Secondary Packaging

**Market** Flexible Packaging

**Processing Method** Cast Film

| Typical Properties               | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 6.2           | g/10 min          | 6.2           | g/10 min          | ASTM D1238  |
| Density, (23 °C)                 | 0.925         | g/cm <sup>3</sup> | 0.925         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Film</b>                      |               |                   |               |                   |             |
| Dart Drop Impact Strength, F50   | 110           | g                 | 110           | g                 | ASTM D1709  |
| Tensile Strength at Break        |               |                   |               |                   |             |
| MD                               | 3080          | psi               | 21.2          | MPa               | ASTM D882   |
| TD                               | 2240          | psi               | 15.4          | MPa               | ASTM D882   |
| Tensile Strength at Yield        |               |                   |               |                   |             |
| MD                               | 1270          | psi               | 8.76          | MPa               | ASTM D882   |
| TD                               | 1260          | psi               | 8.69          | MPa               | ASTM D882   |
| Tensile Elongation at Break      |               |                   |               |                   |             |
| MD                               | 410           | %                 | 410           | %                 | ASTM D882   |
| TD                               | 590           | %                 | 590           | %                 | ASTM D882   |
| 1% Secant Modulus, MD            | 21300         | psi               | 147           | MPa               | ASTM D882   |
| Elmendorf Tear Strength          |               |                   |               |                   |             |
| MD                               | 465           | g                 | 465           | g                 | ASTM D1922  |
| TD                               | 318           | g                 | 318           | g                 | ASTM D1922  |
| <b>Optical</b>                   |               |                   |               |                   |             |
| Haze                             | 6.6           | %                 | 6.6           | %                 | ASTM D1003  |
| Gloss, (45°)                     | 73            |                   | 73            |                   | ASTM D2457  |
| <b>Additive</b>                  |               |                   |               |                   |             |
| Slip                             | 2800          | ppm               | 2800          | ppm               | LYB Method  |
| Antiblock                        | 3100          | ppm               | 3100          | ppm               | LYB Method  |

