

## Technical Data Sheet

### *Petrothene* NA334000



Low Density Polyethylene

#### Product Description

*Petrothene* NA334000 is a low density homopolymer resin selected by customers for thin film and profile applications. NA334000 is known for its consistency, exceptional drawdown and processability.

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| <b>Application</b>       | Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Liner Film |
| <b>Market</b>            | Flexible Packaging                                                                   |
| <b>Processing Method</b> | Blown Film; 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) | 6.0           | g/10 min          | 6.0           | g/10 min          | ASTM D1238  |
| Density, (23 °C)                 | 0.919         | g/cm <sup>3</sup> | 0.919         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Film</b>                      |               |                   |               |                   |             |
| Dart Drop Impact Strength, F50   | 65            | g                 | 65            | g                 | ASTM D1709  |
| Tensile Strength at Break        |               |                   |               |                   |             |
| MD                               | 2200          | psi               | 15.2          | MPa               | ASTM D882   |
| TD                               | 2000          | psi               | 13.8          | MPa               | ASTM D882   |
| Tensile Elongation at Break      |               |                   |               |                   |             |
| MD                               | 300           | %                 | 300           | %                 | ASTM D882   |
| TD                               | 450           | %                 | 450           | %                 | ASTM D882   |
| 1% Secant Modulus                |               |                   |               |                   |             |
| MD                               | 20000         | psi               | 138           | MPa               | ASTM D882   |
| TD                               | 23000         | psi               | 159           | MPa               | ASTM D882   |
| <b>Thermal</b>                   |               |                   |               |                   |             |
| Vicat Softening Temperature      | 185           | °F                | 85            | °C                | ASTM D1525  |
| <b>Optical</b>                   |               |                   |               |                   |             |
| Haze                             | 12            | %                 | 12            | %                 | ASTM D1003  |
| Gloss, (45°)                     | 50            |                   | 50            |                   | ASTM D2457  |
| <b>Additive</b>                  |               |                   |               |                   |             |
| Slip                             | None          |                   | None          |                   | LYB Method  |
| Antiblock                        | None          |                   | None          |                   | LYB Method  |