

## Technical Data Sheet

**Petrothene NA340163**

Ethylene Vinyl Acetate

**Product Description**

*Petrothene NA340* is a series of LDPE/EVA copolymer resins selected by customers for film applications that require clarity and good impact strength. Typical applications include heavy produce, textile, frozen food packaging and sealant films.

|                          |                       |
|--------------------------|-----------------------|
| <b>Application</b>       | Clarity 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)                       | 1.0           | g/10 min      | 1.0           | g/10 min | ASTM D1238  |
| Vinyl Acetate Content                                  | 4.0           | %             | 4.0           | %        | LYB Method  |
| <b>Film</b>                                            |               |               |               |          |             |
| Dart Drop Impact Strength, F50                         | 140           | g             | 140           | g        | ASTM D1709  |
| Tensile Strength at Break                              |               |               |               |          |             |
| MD                                                     | 3700          | psi           | 25.5          | MPa      | ASTM D882   |
| TD                                                     | 3100          | psi           | 21.4          | MPa      | ASTM D882   |
| Tensile Elongation at Break                            |               |               |               |          |             |
| MD                                                     | 340           | %             | 340           | %        | ASTM D882   |
| TD                                                     | 500           | %             | 500           | %        | ASTM D882   |
| 1% Secant Modulus                                      |               |               |               |          |             |
| MD                                                     | 21000         | psi           | 145           | MPa      | ASTM D882   |
| TD                                                     | 24000         | psi           | 165           | MPa      | ASTM D882   |
| Elmendorf Tear Strength                                |               |               |               |          |             |
| MD                                                     | 180           | g             | 180           | g        | ASTM D1922  |
| TD                                                     | 250           | g             | 250           | g        | ASTM D1922  |
| <b>Thermal</b>                                         |               |               |               |          |             |
| Vicat Softening Temperature                            | 203           | °F            | 95            | °C       | ASTM D1525  |
| <b>Optical</b>                                         |               |               |               |          |             |
| Haze                                                   | 4.0           | %             | 4.0           | %        | ASTM D1003  |
| As measured on NA340141 (high slip, medium antiblock). |               |               |               |          |             |
| Gloss, (45°)                                           | 75            |               | 75            |          | ASTM D2457  |
| As measured on NA340141 (high slip, medium antiblock). |               |               |               |          |             |
| <b>Additive</b>                                        |               |               |               |          |             |
| Slip                                                   | 500           | ppm           | 500           | ppm      | LYB Method  |
| Antiblock                                              | 2000          | ppm           | 2000          | ppm      | LYB Method  |
| <b>Processing Parameters</b>                           |               |               |               |          |             |
| Melt Temperature                                       | 330 - 375     | °F            | 165 - 191     | °C       |             |