

## Technical Data Sheet

### *Petrothene* NA350136



Ethylene Vinyl Acetate

#### Product Description

*Petrothene* NA350136 is a LDPE/EVA copolymer selected by customers for heavy-duty film packaging and other high strength, easy to seal packaging. NA350136 exhibits high impact strength and good low temperature toughness.

|                          |                    |
|--------------------------|--------------------|
| <b>Application</b>       | Clarity Film       |
| <b>Market</b>            | Flexible Packaging |
| <b>Processing Method</b> | Blown Film         |

| Typical Properties               | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 1.2           | g/10 min          | 1.2           | g/10 min          | ASTM D1238  |
| Base Resin Density, (23 °C)      | 0.926         | g/cm <sup>3</sup> | 0.926         | g/cm <sup>3</sup> | ASTM D1505  |
| Vinyl Acetate Content            | 6.6           | %                 | 6.6           | %                 | LYB Method  |
| <b>Film</b>                      |               |                   |               |                   |             |
| Dart Drop Impact Strength, F50   | 285           | g                 | 285           | g                 | ASTM D1709  |
| Tensile Strength at Break        |               |                   |               |                   |             |
| MD                               | 3250          | psi               | 22.4          | MPa               | ASTM D882   |
| TD                               | 2750          | psi               | 19.0          | MPa               | ASTM D882   |
| Tensile Elongation at Break      |               |                   |               |                   |             |
| MD                               | 190           | %                 | 190           | %                 | ASTM D882   |
| TD                               | 470           | %                 | 470           | %                 | ASTM D882   |
| 1% Secant Modulus                |               |                   |               |                   |             |
| MD                               | 20000         | psi               | 138           | MPa               | ASTM D882   |
| TD                               | 23000         | psi               | 156           | MPa               | ASTM D882   |
| Elmendorf Tear Strength          |               |                   |               |                   |             |
| MD                               | 107           | g                 | 107           | g                 | ASTM D1922  |
| TD                               | 83            | g                 | 83            | g                 | ASTM D1922  |
| <b>Thermal</b>                   |               |                   |               |                   |             |
| Vicat Softening Temperature      | 189           | °F                | 87            | °C                | ASTM D1525  |
| <b>Optical</b>                   |               |                   |               |                   |             |
| Haze                             | 10            | %                 | 10            | %                 | ASTM D1003  |
| Gloss, (45°)                     | 55            |                   | 55            |                   | ASTM D2457  |
| <b>Additive</b>                  |               |                   |               |                   |             |
| Slip                             | 800           | ppm               | 800           | ppm               | LYB Method  |
| Antiblock                        | 4000          | ppm               | 4000          | ppm               | LYB Method  |