

## Technical Data Sheet

### *Petrothene* GA1832



Linear Low Density Polyethylene

#### Product Description

The *Petrothene* GA1832 resin is a pelletized linear low density polyethylene selected by customers for applications that require maximum strength and toughness. This product offers excellent additive homogeneity, requires no transfer equipment modification, and facilitates clean and safe handling. Typical applications include cast stretch film for pallet utilization. The GA1832 resin offers enhanced film strength, drawdown, toughness, and heat seal strength.

|                          |                                          |
|--------------------------|------------------------------------------|
| <b>Application</b>       | Cast Stretch Film For Pallet Utilization |
| <b>Market</b>            | Flexible Packaging                       |
| <b>Processing Method</b> | Cast Film; Sheet and Profile Extrusion   |

| Typical Properties               | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 3.2           | g/10 min          | 3.2           | g/10 min          | ASTM D1238  |
| Base Resin Density, (23 °C)      | 0.918         | g/cm <sup>3</sup> | 0.918         | g/cm <sup>3</sup> | ASTM D792   |
| Product Density, (23 °C)         | 0.918         | g/cm <sup>3</sup> | 0.918         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Film</b>                      |               |                   |               |                   |             |
| Dart Drop Impact Strength, F50   | 104           | g                 | 104           | g                 | ASTM D1709  |
| Tensile Strength at Break        |               |                   |               |                   |             |
| MD                               | 5670          | psi               | 39            | MPa               | ASTM D882   |
| TD                               | 3340          | psi               | 23            | MPa               | ASTM D882   |
| Tensile Elongation at Break      |               |                   |               |                   |             |
| MD                               | 481           | %                 | 481           | %                 | ASTM D882   |
| TD                               | 735           | %                 | 735           | %                 | ASTM D882   |
| 1% Secant Modulus                |               |                   |               |                   |             |
| MD                               | 24400         | psi               | 168           | MPa               | ASTM D882   |
| TD                               | 25800         | psi               | 178           | MPa               | ASTM D882   |
| Elmendorf Tear Strength          |               |                   |               |                   |             |
| MD                               | 309           | g                 | 309           | g                 | ASTM D1922  |
| TD                               | 764           | g                 | 764           | g                 | ASTM D1922  |
| <b>Optical</b>                   |               |                   |               |                   |             |
| Haze                             | 1.4           | %                 | 1.4           | %                 | ASTM D1003  |
| Gloss, (45°)                     | 75            | %                 | 75            | %                 | ASTM D2457  |
| <b>Additive</b>                  |               |                   |               |                   |             |
| Slip                             | None          |                   | None          |                   | LYB Method  |
| Antiblock                        | None          |                   | None          |                   | LYB Method  |