

## Technical Data Sheet

### *Petrothene* GA684192



Linear Low Density Polyethylene

#### Product Description

*Petrothene* GA684192 is a pelletized LLDPE copolymer resin selected by customers for injection molding. Typical applications include lids and thin-walled items that require high flow and short cycle times. GA684192 exhibits excellent flow, warp resistance and surface appearance.

|                   |                   |
|-------------------|-------------------|
| Application       | Lids              |
| Market            | Rigid Packaging   |
| Processing Method | Injection Molding |

| Typical Properties                                      | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|---------------------------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                        | 100           | g/10 min          | 100           | g/10 min          | ASTM D1238  |
| Density, (23 °C)                                        | 0.929         | g/cm <sup>3</sup> | 0.929         | g/cm <sup>3</sup> | ASTM D1505  |
| Spiral Flow                                             | 23.2          | in                | 59.0          | cm                | LYB Method  |
| <b>Mechanical</b>                                       |               |                   |               |                   |             |
| Flexural Modulus, (0.05 in/min, 1% Secant, Procedure A) | 94000         | psi               | 650           | MPa               | ASTM D790   |
| Tensile Strength at Yield, (2 in/min)                   | 2700          | psi               | 18            | MPa               | ASTM D638   |
| Tensile Elongation at Yield, (23 °C)                    | 9             | %                 | 9             | %                 | ASTM D638   |
| <b>Hardness</b>                                         |               |                   |               |                   |             |
| Shore Hardness, (Shore D)                               | 57            |                   | 57            |                   | ASTM D2240  |
| <b>Thermal</b>                                          |               |                   |               |                   |             |
| Vicat Softening Temperature, (A50)                      | 200           | °F                | 93            | °C                | ASTM D1525  |
| Low Temperature Brittleness, F <sub>50</sub>            | -22           | °F                | -30           | °C                | ASTM D746   |
| Heat Deflection Temperature, (0.45 MPa)                 | 120           | °F                | 49            | °C                | ASTM D648   |