

## Technical Data Sheet

### *Petrothene* NA202000



Low Density Polyethylene

#### Product Description

*Petrothene* NA202000 resin exhibits high processability, low warpage and a combination of softness and toughness desired for LDPE molding. Typical applications include automotive items, toys, closures, lids and wire & cable.

**Application** Automotive Parts; Caps & Closures; Sports, Leisure & Toys; Wire & Cable

**Market** Rigid Packaging; Wire & Cable

**Processing Method** Injection Molding; Wire & Cable

| Typical Properties                           | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|----------------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                              |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)             | 22            | g/10 min          | 22            | g/10 min          | ASTM D1238  |
| Density, (23 °C)                             | 0.915         | g/cm <sup>3</sup> | 0.915         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                            |               |                   |               |                   |             |
| Flexural Modulus, (1% Secant)                | 24700         | psi               | 170           | MPa               | ASTM D790   |
| Tensile Stress at Break                      | 1450          | psi               | 10.0          | MPa               | ASTM D638   |
| Tensile Stress at Yield                      | 1250          | psi               | 8.6           | MPa               | ASTM D638   |
| Tensile Elongation at Break                  | 550           | %                 | 550           | %                 | ASTM D638   |
| Tensile Elongation at Yield                  | 23            | %                 | 23            | %                 | ASTM D638   |
| <b>Hardness</b>                              |               |                   |               |                   |             |
| Shore Hardness, (Shore D)                    | 40            |                   | 40            |                   | ASTM D2240  |
| <b>Thermal</b>                               |               |                   |               |                   |             |
| Low Temperature Brittleness, F <sub>50</sub> | -53           | °F                | -47           | °C                | ASTM D746   |