

*Petrothene*

# NA324009

Medium Density Polyethylene

Blow Molding Grade

Melt Index: 3.0     Density: 0.931

**Applications**

*Petrothene* NA324009 is a medium density homopolymer resin selected by customers for blow molding applications. NA324009 provides good clarity, toughness and processability. Typical applications include flexible containers, squeeze bottles and toys.

**Regulatory Status**

NA324009 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer "... in articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

**Processing Techniques**

Specific recommendations for processing NA324009 can be made only when the end use applications, required properties and processing equipment are known.

**Typical Properties**

| Property                                     | Nominal Value | Units    | ASTM Test Method |
|----------------------------------------------|---------------|----------|------------------|
| Melt Index                                   | 3.0           | g/10 min | D1238            |
| Density                                      | 0.931         | g/cc     | D1505            |
| <b>Molding</b>                               |               |          |                  |
| Tensile Strength @ Break                     | 2,200         | psi      | D638             |
| Elongation @ Break                           | >500          | %        | D638             |
| Flexural Modulus                             | 56,000        | psi      | D790             |
| Low Temperature Brittleness, F <sub>50</sub> | <-76          | °C       | D746             |
| Heat Deflection @ 66 psi                     | 53            | °C       | D648             |
| Vicat Softening Point                        | 105           | °C       | D1525            |
| Hardness, Shore D                            | 59            |          | D2240            |

These are typical values not to be construed as specification limits.