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Petrothene

## NA963083

Low Density Polyethylene Film Extrusion Grade

Melt Index: 0.70 Density: 0.921



**Applications** 

*Petrothene* NA963083 is selected by customers for use in a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. NA963083 exhibits uniformity, ease of processing and good tensile strength.

Regulatory Status NA963083 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** 

Generally recommended extrusion conditions include a melt temperature range of 310°-350°F (155°-177°C) and a blow-up ratio range of 1.8-2.5:1. Drawdown to gauges below 1.0 mils (<25 microns) is possible at commercial rates when proper techniques are used. Specific recommendations for processing NA963083 can only be made when the processing conditions, equipment and end use are known.

## Typical Properties

| Property Melt Index Base Resin Density Density Vicat Softening Point   | Nominal<br>Value<br>0.70<br>0.919<br>0.921<br>90                  | Units<br>g/10 min<br>g/cc<br>g/cc<br>°C | ASTM Test Method D1238 D1505 D1505 D1525 |
|--|---|---|--|
| Film* Dart Drop Impact Strength, F <sub>50</sub> Tensile Strength, MD (TD) Elongation, MD (TD) 1% Secant Modulus, MD (TD) Elmendorf Tear Strength, MD (TD) | 130<br>3,400 (2,400)<br>160 (480)<br>26,000 (32,000)<br>300 (180) | g<br>psi<br>%<br>psi<br>g               | D1709<br>D882<br>D882<br>E111<br>D1922   |
| <b>Molding</b> Low Temperature Brittleness, F <sub>50</sub> Tensile Strength @ Yield (Break) Elongation @ Yield (Break) Hardness, Shore D                  | -75<br>1,550 (1,650)<br>100 (700)<br>46                           | °C<br>psi<br>%                          | D746<br>D638<br>D638<br>D2240            |

| Product         | NA963083 |
|-----------------|----------|
| Slip (ppm)      | None     |
| Antiblock (ppm) | 4,000    |

<sup>\*</sup> Data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 350°F (177°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 150 lb/hr.

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