

Petrothene

NA952

Low Density Polyethylene

Film Extrusion Grade

Melt Index: 2.0 Density: 0.919



Applications

Petrothene NA952 is a series of homopolymer resins selected by customers for use in industrial and consumer packaging as well as liner and bag applications. NA952 has an excellent balance of processability, toughness and drawdown.

Regulatory Status

The base resin NA952 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 NA952 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 | 2.0 | g/10 min | D1238 |
| Base Resin Density | 0.919 | g/cc | D1505 |
| Vicat Softening Point | 85 | °C | D1525 |
| Film¹ | | | |
| Dart Drop Impact Strength, F ₅₀ | 110 | g | D1709 |
| Tensile Strength, MD (TD) | 3,200 (2,300) | psi | D882 |
| Elongation, MD (TD) | 200 (500) | % | D882 |
| 1% Secant Modulus, MD (TD) | 26,500 (32,000) | psi | E111 |
| Elmendorf Tear Strength, MD (TD) | 350 (70) | g | D1922 |
| Molding* | | | |
| Tensile Strength | 1,800 | psi | D638 |
| Elongation @ Break | 650 | % | D638 |

Products

Slip (ppm)
Antiblock (ppm)

NA952000

None
None

NA952094

500
4,000

¹ Data obtained from film produced in 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.

* Data derived from type IV specimen, 75 mil plaque @ 20" min.