

Petrothene

NA362



Low Density Polyethylene
Film Extrusion Grade

Melt Index: 0.5 Vinyl Acetate Content: 6.6%

Applications

Petrothene NA362 is a series of LDPE/EVA copolymer resins selected by customers for use in bag-in-box, heavy-duty skin packaging and other high strength, easy to seal packaging. NA362 exhibits high impact strength and good low temperature toughness.

Regulatory Status

NA362 resins meet the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows the use of this ethylene vinyl acetate copolymer "...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 NA362 resins can only be made with the processing conditions, equipment and end use are known.

Typical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|--|-----------------|----------|------------------|
| Melt Index | 0.5 | g/10 min | D1238 |
| Vinyl Acetate Content | 6.6 | % | |
| Base Resin Density | 0.926 | g/cc | D1505 |
| Vicat Softening Point | 87 | °C | D1525 |
| Film* | | | |
| Tensile Strength @ Break, MD (TD) | 3,800 (3,600) | psi | D882 |
| Elongation @ Break, MD (TD) | 500 (600) | % | D882 |
| Dart Drop Impact Strength, F ₅₀ | 310 | g | D1709 |
| 1% Secant Modulus, MD (TD) | 17,000 (21,000) | psi | E111 |
| Elmendorf Tear Strength, MD (TD) | 140 (260) | g | D1922 |

| Products | NA362005 | NA362176 |
|-----------------|----------|----------|
| Slip (ppm) | None | 1,400 |
| Antiblock (ppm) | None | 12,000 |

*Data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 430°F (221°C) melt extrusion temperature, 2:1 BUR, 2.0 mil (51 micron) gauge, 0.025" die gap at 130 lb/hr.

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