

# Petrothene® NA426225

Low Density Polyethylene + EVA

LyondellBasell Industries

## Message:

Petrothene NA426 is a series of LDPE/EVA copolymer resins selected by customers for high impact and clarity packaging film.

| General Information           |                              |                   |             |
|-------------------------------|------------------------------|-------------------|-------------|
| Additive                      | Anti-caking agent (1900 ppm) |                   |             |
|                               | Sliding agent (1000 ppm)     |                   |             |
| Features                      | Impact resistance, high      |                   |             |
|                               | Definition, high             |                   |             |
| Uses                          | Films                        |                   |             |
|                               | Food packaging               |                   |             |
| Agency Ratings                | FDA 21 CFR 177.1350          |                   |             |
| Processing Method             | Extrusion                    |                   |             |
| Physical                      | Nominal Value                | Unit              | Test Method |
| Density                       | 0.924                        | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR)     | 2.5                          | g/10 min          | ASTM D1238  |
| Vinyl Acetate Content         | 2.5                          | wt%               |             |
| Films                         | Nominal Value                | Unit              | Test Method |
| secant modulus                |                              |                   | ASTM E111   |
| 1% secant, MD                 | 138                          | MPa               | ASTM E111   |
| 1% secant, TD                 | 172                          | MPa               | ASTM E111   |
| Tensile Strength              |                              |                   | ASTM D882   |
| MD: Fracture                  | 22.8                         | MPa               | ASTM D882   |
| TD: Fracture                  | 16.5                         | MPa               | ASTM D882   |
| Tensile Elongation            |                              |                   | ASTM D882   |
| MD: Fracture                  | 350                          | %                 | ASTM D882   |
| TD: Fracture                  | 550                          | %                 | ASTM D882   |
| Dart Drop Impact <sup>1</sup> | 80                           | g                 | ASTM D1709  |
| Elmendorf Tear Strength       |                              |                   | ASTM D1922  |
| MD                            | 220                          | g                 | ASTM D1922  |
| TD                            | 250                          | g                 | ASTM D1922  |
| Thermal                       | Nominal Value                | Unit              | Test Method |
| Vicat Softening Temperature   | 90.0                         | °C                | ASTM D1525  |
| Optical                       | Nominal Value                | Unit              | Test Method |
| Gloss (45°)                   | 73                           |                   | ASTM D2457  |

|                                                                                                                                                                                                                        |               |      |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|------------|
| Haze                                                                                                                                                                                                                   | 4.5           | %    | ASTM D1003 |
| Additional Information                                                                                                                                                                                                 | Nominal Value |      |            |
| Blow-up Ratio                                                                                                                                                                                                          | 1.7 - 3.0:1   |      |            |
| Data obtained from film produced in a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 lb/hr. |               |      |            |
| Extrusion                                                                                                                                                                                                              | Nominal Value | Unit |            |
| Melt Temperature                                                                                                                                                                                                       | 166 - 193     | °C   |            |
| NOTE                                                                                                                                                                                                                   |               |      |            |
| 1.                                                                                                                                                                                                                     | F50           |      |            |

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