

# AT 416

Low Density Polyethylene  
Celanese EVA Performance Polymers

Message:

A low density polyethylene resin well suited for extrusion coating and lamination applications such as envelope stock and thin paper coatings. This resin has excellent adhesion and high line speed capability.

| General Information  |                     |                   |             |
|--|---------------------|-------------------|-------------|
| Features   | Good adhesion       |                   |             |
| Uses   | Laminate            |                   |             |
|  | Coating application |                   |             |
|  | Paper coating       |                   |             |
| Forms  | Particle            |                   |             |
| Processing Method  | Extrusion coating   |                   |             |
| Physical   | Nominal Value       | Unit              | Test Method |
| Density  | 0.917               | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                                  | 15                  | g/10 min          | ASTM D1238  |
| Mechanical   | Nominal Value       | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Break)                                      | 9.00                | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                                    | 500                 | %                 | ASTM D638   |
| Thermal  | Nominal Value       | Unit              | Test Method |
| Vicat Softening Temperature  | 88.0                | °C                | ASTM D1525  |
| Additional Information   |                     |                   |             |
| Minimum Coating Thickness: 5 µm (3 lb/ream)Maximum Line Speed: 1500 ft/min |                     |                   |             |
| Extrusion  | Nominal Value       | Unit              |             |
| Melt Temperature   | 270 - 310           | °C                |             |
| NOTE   |                     |                   |             |
| 1.   | Type 4, 50mm/min    |                   |             |
| 2.   | Type 4, 50mm/min    |                   |             |

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