

## AT 7110

## LOW DENSITY POLYETHYLENE

### Product Description

This resin is commonly used for packaging material for food, nutrient and pharmaceutical ingredients, as well as in applications involving devices and implants.

| Resin Properties            | Typical Value | SI Unit           | Imperial | Unit              | Test Method                  |
|-----------------------------|---------------|-------------------|----------|-------------------|------------------------------|
| Vinyl Acetate               | 0             | %                 | 0        | %                 | PTM-39                       |
| Melt Index (190 °C/2.16 kg) | 0.8           | g/10 min.         | 0.8      | g/10 min.         | ASTM D1238                   |
| Density                     | 922           | kg/m <sup>3</sup> | 0.922    | g/cm <sup>3</sup> | ASTM D1505 ASTM D1928 Proc A |
| Antioxidant                 | No            |                   | No       |                   |                              |

### Thermal Properties

|                       |     |    |     |    |            |
|-----------------------|-----|----|-----|----|------------|
| DSC Melt Temp         | 114 | °C | 237 | °F | ASTM D3418 |
| Vicat Softening Point | 100 | °C | 211 | °F | ASTM D1525 |

### Molded Plaque Properties

|                              |     |     |        |     |                              |
|------------------------------|-----|-----|--------|-----|------------------------------|
| Tensile Strength at Break    | 20  | MPa | 2900   | psi | ASTM D638 Type IV (50mm/min) |
| Elongation at Break          | 600 | %   | 600    | %   |                              |
| Hardness - Shore D           | 52  | --  | 52     | --  |                              |
| Flexural Modulus (1% Secant) | 269 | MPa | 39,020 | psi | ASTM D790                    |

### Processing Information

This polymer may be processed using conventional polymer processing equipments including extrusion, injection molding, thermoforming, blown film and blow filled seal (BFS) processes.

### Regulatory Compliance

Contact Celanese Customer Service for information about food contact or other regulatory compliance.