



# Exelene® HDPE

Product Data Sheet

**High Density Polyethylene  
HMW Bimodal Resin**

**PE80**

Melt Flow Rate **0.04**

Density **0.949**

**Applications**

- Corrugated pipe
- Non pressure pipe extrusion

**Characteristics**

- The Exelene resin HDPE PE80 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated “Olefin Polymers” from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

| Properties                         | ASTM Testing                         | Units                     | Values |
|------------------------------------|--------------------------------------|---------------------------|--------|
| <b>Resin Properties</b>            |                                      |                           |        |
| Melt Flow Rate                     | Condition E D 1238 (190°C; 2,16 kgf) | g/10 min                  | 0.04   |
|                                    | Condition F D 1238 (190°C; 21,6 kgf) | g/10 min                  | 8.50   |
| Density                            | D 792 (23°C)                         | g/cm <sup>3</sup>         | 0.949  |
| <b>Nominal Physical Properties</b> |                                      |                           |        |
| Tensile Strength @ yield           | D 638 (50 mm/min, IV)                | psi                       | 3,600  |
| Elongation @ break                 | D 638 (50 mm/min, IV)                | %                         | 600    |
| Tensile Impact Strength            | D 1822 (S)                           | ft x lb / in <sup>2</sup> | 115    |
| Brittleness Temperature            | D 746A (F50; 25 lbfXin)              | °C                        | 180    |
| ESCR                               | Condition A D 1693A (F50; 3,1 mm)    | h                         | 500    |
|                                    | NCTL 15% F2136                       | h                         | 400    |

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