



### Exelene<sup>®</sup> mLLDPE

#### Product Data Sheet

**Linear Low Density Polyethylene**  
**Metallocene - Hexene Copolymer**  
**Cast & Blown Film Extrusion**

## 3900

**Melt Index** 3.5

**Density** 0.917

#### Applications

- Blown Film, retail and food packaging applications, freezer films and other industrial applications
- Ideal material for blends with LDPE, thin gauge films as well as multilayer film applications
- Cast film applications / Stretch Film

#### Characteristics

- The Exelene resin LLDPE 3900 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.

| Propierties                                                   |                  | ASTM Test                        | Units             | Values |
|---------------------------------------------------------------|------------------|----------------------------------|-------------------|--------|
| Resin Properties                                              |                  |                                  |                   |        |
| Melt Index                                                    | MFI <sub>2</sub> | D 1238 (190°C; 2,16 kgf)         | g/10 min          | 3.5    |
| Density                                                       |                  | D 792 (23°C)                     | g/cm <sup>3</sup> | 0.917  |
| additives                                                     |                  | Antioxidant / Thermal Stabilizer |                   |        |
| Blow Film Properties with thickness of 1.0 mils = 25.4microns |                  |                                  |                   |        |
| Tensile Strenght @ Break (1)                                  | MD               | D 882A (20 in/min)               | psi               | 10,000 |
|                                                               | TD               |                                  | psi               | 6,500  |
| Elongation @ Break                                            | MD               | D 882A (20 in/min)               | %                 | 500    |
|                                                               | TD               |                                  | %                 | 675    |
| Secant Modulus                                                | MD               | D 882A (0,2 in/min; 1%)          | psi               | 15,500 |
|                                                               | TD               |                                  | psi               | 17,500 |
| Tear strenght                                                 | MD               | D 1922 (1.600 gf)                | gf                | 200    |
|                                                               | TD               |                                  | gf                | 500    |
|                                                               |                  |                                  |                   |        |
| Opacity                                                       |                  | D 1003                           | %                 | 2.4    |

(1) mLLDPE-hexene - Linear Low Density Polyethylene polymerized from the comonomer 1-hexene in the presence of a metallocene catalyst

(2) MD = Machine Direction and TD = Transversal Direction

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