



## Exelene® LLDPE

### Product Data Sheet

Linear Low Density Polyethylene

Hexene copolymer

Rotational Molding

## 5000UV

Melt Flow Rate 5

Density 0.938

#### Applications

- Rotational molding applications
- Water tanks and other items

#### Characteristics

- The Exelene resin LLDPE 5000UV 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.

| Grade                | Additives Package |
|----------------------|-------------------|
| Exelene LLDPE 5000UV | UV > 16           |

| Properties                   | ASTM Testing                              | Units             | Values  |
|------------------------------|-------------------------------------------|-------------------|---------|
| <b>Resin Properties</b>      |                                           |                   |         |
| Melt Flow Rate               | MFI <sub>2</sub> D 1238 (190°C; 2,16 kgf) | g/10 min          | 5       |
| Density                      | D 792 (23°C)                              | g/cm <sup>3</sup> | 0.938   |
| ESCR 10% Igepal Cond.B F50   | D 1693                                    | h                 | 155     |
| ESCR 100% Igepal Cond.B F50  | D 1693                                    | h                 | >900    |
| Flexural Modulus (1% secant) | D 790                                     | psi               | 128,000 |
| Tensile Strength @ break     | D 638                                     | psi               | 1700    |
| Tensile Strength @ yield     | D 638                                     | psi               | 3000    |
| Elongation @ break           | D 638                                     | %                 | 300     |
| Elongation @ yield           | D 638                                     | %                 | 8       |
| <b>Thermal Properties</b>    |                                           |                   |         |
| Vicat                        | D 1525                                    | °C/°F             | 119/247 |
| Melting Point                | D 3417                                    | °C/°F             | 126/259 |

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