

## ExxonMobil HDPE AA48-002 High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

**Product Description:** AA48-002 is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It provides a very good balance of stress crack resistance, stiffness and impact strength. **Availability:** Latin America, North America and South America

**Additive:** Thermal Stabilizer: Yes **Antistatic:** Yes **Applications:** Agriculture Products Containers Food packaging Household and Industrial chemical containers Pharmaceutical Packaging Thin Gauge Sheet

Information provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-HDPE-AA48-002-High-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-AA48-002-High-Density-Polyethylene-Resin.php)

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Density             | 0.948 g/cc                                            | 0.0342 lb/in <sup>3</sup>                             | ASTM D4883 |
| ESCR 100% Igepal®   | >= 200 hour                                           | >= 200 hour                                           | ASTM D1963 |
| Melt Flow           | 0.22 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.22 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties   | Metric                | English                   | Comments   |
|-------------------------|-----------------------|---------------------------|------------|
| Tensile Strength, Yield | 26.2 MPa              | 3800 psi                  | ASTM D638  |
| Elongation at Break     | 900 %                 | 900 %                     | ASTM D638  |
| Flexural Modulus        | 1.24 GPa              | 180 ksi                   | ASTM D790  |
| Tensile Impact Strength | 231 kJ/m <sup>2</sup> | 110 ft-lb/in <sup>2</sup> | ASTM D1822 |

| Thermal Properties      | Metric      | English    | Comments   |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point   | 122 °C      | 252 °F     | ASTM D1525 |
| Brittleness Temperature | <= -76.1 °C | <= -105 °F | ASTM D746  |

## Contact Songhan Plastic Technology Co.,Ltd.

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