

## ExxonMobil Paxon™ AA45-004 Blow Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

### Material Notes:

**Product Description:** AA45-004 is a blow molding high density polyethylene copolymer offering exceptional stress cracking resistance and impact performance.  
**Availability:** Latin America, North America and South America  
**Additive:** Thermal Stabilizer: Yes  
**Antistatic:** No

**Applications:** Agricultural Products Food packaging Household and Industrial chemical containers Pharmaceutical Packaging Information provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Paxon-AA45-004-Blow-Molding-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-Paxon-AA45-004-Blow-Molding-Resin.php)

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Density             | 0.945 g/cc                                            | 0.0341 lb/in <sup>3</sup>                             | ASTM D4883 |
| ESCR 100% Igepal®   | >= 1000 hour                                          | >= 1000 hour                                          | ASTM D1693 |
| Melt Flow           | 0.35 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.35 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties   | Metric                | English                   | Comments                                                             |
|-------------------------|-----------------------|---------------------------|----------------------------------------------------------------------|
| Tensile Strength, Yield | 24.1 MPa              | 3500 psi                  | ASTM D638                                                            |
| Elongation at Break     | 900 %                 | 900 %                     | ASTM D638                                                            |
| Flexural Modulus        | 1.03 GPa              | 150 ksi                   | Method 1, Procedure A (1"x3"x0.125"), Tangent calculation; 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   | 121 °C      | 250 °F     | ASTM D1525 |
| Brittleness Temperature | <= -76.1 °C | <= -105 °F | ASTM D746  |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Melt Temperature      | 191 °C | 375 °F  |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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