

# ExxonMobil™ HDPE HTA 002

## High Density Polyethylene Resin

### Product Description

HTA 002 is a general purpose medium molecular weight HDPE grade, characterized by easy processability, especially in coextrusion and blending with other polyolefins. HTA 002 can also be used pure, especially for easy processing and conversion into small and thin bags, to be used for light item packaging.

### General

|                           |   |
|---------------------------|---|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> </ul>  |
| Additive                  | <ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> <li>Thermal Stabilizer: Yes</li> </ul>  |
| Applications              | <ul style="list-style-type: none"> <li>Blown Film</li> <li>Collation Shrink</li> <li>Food packaging</li> <li>General Packaging</li> <li>Grocery Sacks</li> <li>Heavy Duty Bags</li> <li>Industrial Packaging</li> <li>Label Film</li> <li>Shrink Film</li> <li>Stand Up Pouches</li> <li>Thin Gauged Consumer Bags</li> <li>Trash Bags</li> <li>Trash Can Liners</li> </ul> |
| Revision Date             | <ul style="list-style-type: none"> <li>05/01/2014</li> </ul>  |

### Resin Properties

|  | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|--|-------------------------|-------------------------|-------------------|
| Density                                  | 0.952 g/cm <sup>3</sup> | 0.952 g/cm <sup>3</sup> | ExxonMobil Method |
| High Load Melt Index (190°C/21.6 kg)     | 16 g/10 min             | 16 g/10 min             | ASTM D1238        |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 0.68 g/10 min           | 0.68 g/10 min           | ASTM D1238        |

### Thermal

|                             | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 259 °F                  | 126 °C             | ASTM D1525    |

### Film Properties

|                               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD  | 4200 psi                | 29 MPa             | ASTM D882     |
| Tensile Strength at Yield TD  | 4200 psi                | 29 MPa             | ASTM D882     |
| Tensile Strength at Break MD  | 8000 psi                | 60 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 7300 psi                | 50 MPa             | ASTM D882     |
| Elongation at Break MD        | 320 %                   | 320 %              | ASTM D882     |
| Elongation at Break TD        | 450 %                   | 450 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 140000 psi              | 960 MPa            | ASTM D882     |
| Secant Modulus TD - 1% Secant | 170000 psi              | 1200 MPa           | ASTM D882     |
| Dart Drop Impact              | 160 g                   | 160 g              | ASTM D1709A   |
| Elmendorf Tear Strength MD    | 8 g                     | 8 g                | ASTM D1922    |
| Elmendorf Tear Strength TD    | 60 g                    | 60 g               | ASTM D1922    |

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

The film properties have been measured on 15 µm (0.59 mil) thick films with a blow-up ratio of 4 : 1 and a frostline height of 9 x die diameter (die diameter/ gap: 120mm/1.0mm (4.7 in/0.06 in); 215°C (419°F) melt temperature; 70 kg/hr (154 lb/hr) output).

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

