

# ExxonMobil™ HDPE HD 7960.13

## High Density Polyethylene Resin

### Product Description

HD 7960.13 is a high molecular weight HDPE blown film resin. Films made from HD 7960.13 exhibit excellent impact and toughness properties, as well as high stiffness. HD 7960.13 is particularly recommended for films less than 0.5 mil in thickness.

### General

|                           |                                 |  |
|---------------------------|---------------------------------|--|
| Availability <sup>1</sup> | ▪ Latin America                 | ▪ North America  |
| Applications              | ▪ Blown Film<br>▪ Grocery Sacks | ▪ Institutional Can Liners<br>▪ Merchandise Bags<br>▪ Produce Bags On A Roll<br>▪ Trash Bags |
| Revision Date             | ▪ 12/01/2012                    |  |

| 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 |
| Melt Index <sup>2</sup> (190°C/2.16 kg) | 0.060 g/10 min          | 0.060 g/10 min          | ExxonMobil Method |
| High Load Melt Index (190°C/21.6 kg)    | 10 g/10 min             | 10 g/10 min             | ASTM D1238        |
| Peak Melting Temperature                | 267 °F                  | 130 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD  | 5500 psi                | 38 MPa             | ASTM D882     |
| Tensile Strength at Yield TD  | 4800 psi                | 33 MPa             | ASTM D882     |
| Tensile Strength at Break MD  | 12000 psi               | 80 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 10000 psi               | 70 MPa             | ASTM D882     |
| Elongation at Break MD        | 270 %                   | 270 %              | ASTM D882     |
| Elongation at Break TD        | 380 %                   | 380 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 150000 psi              | 1100 MPa           | ASTM D882     |
| Secant Modulus TD - 1% Secant | 160000 psi              | 1100 MPa           | ASTM D882     |
| Dart Drop Impact              | 300 g                   | 300 g              | ASTM D1709A   |
| Elmendorf Tear Strength MD    | 7 g                     | 7 g                | ASTM D1922    |
| Elmendorf Tear Strength TD    | 30 g                    | 30 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

Film (0.5 mil/ 12.7 micron) made from HD 7960.13 on a 1.97 inch (50mm) blown film line with a 4:1 blown-up ratio, a 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F (188°C), a 59 mil (1.5mm) die gap at a rate of 10.75 lbs/hr/in die circumference (1.92 kg/hr/cm).

### 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.

<sup>2</sup> Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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