

ExxonMobil™ HDPE HD 7957.04

High Density Polyethylene Resin

Product Description

ExxonMobil™ HD 7957.04 is a high molecular weight HDPE film resin. Films made with ExxonMobil™ HD 7957.04 exhibit excellent tensile properties, as well as high stiffness. ExxonMobil™ HD 7957.04 is particularly suited for draw tape applications.

General

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|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Applications | <ul style="list-style-type: none"> Draw Tape |
| Form(s) | <ul style="list-style-type: none"> Pellets |
| Revision Date | <ul style="list-style-type: none"> 08/21/2020 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|-------------------------|---------------|
| Density | 0.959 g/cm ³ | 0.959 g/cm ³ | ASTM D1505 |
| Melt Index ² (190°C/2.16 kg) | 0.057 g/10 min | 0.057 g/10 min | ASTM D1238 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------------|-------------------------|--------------------|-------------------|
| Peak Melting Temperature | 271 °F | 133 °C | ExxonMobil Method |
| Crystallization Peak, T _c | 246 °F | 119 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD | 5900 psi | 41 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 5200 psi | 36 MPa | ASTM D882 |
| Tensile Strength at Break MD | 13000 psi | 90 MPa | ASTM D882 |
| Tensile Strength at Break TD | 11000 psi | 80 MPa | ASTM D882 |
| Elongation at Break MD | 310 % | 310 % | ASTM D882 |
| Elongation at Break TD | 380 % | 380 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 180000 psi | 1300 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 180000 psi | 1300 MPa | ASTM D882 |
| Dart Drop Impact | 290 g | 290 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 9 g | 9 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 20 g | 20 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 7957.04 resin on a 3.8 inch (96.5 mm) blown film line with a 3.8:1 blow-up ratio, a 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F, (188°C), a 59 mil (1.5 mm) 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.

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

² 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

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