

ExxonMobil™ HDPE HTA 002HD5

High Density Polyethylene Resin

Product Description

HTA 002HD5 is a general purpose medium molecular weight HDPE grade, characterized by easy processability, especially in coextrusion and blending with other polyolefins. HTA 002HD5 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 ¹ | ▪ Africa & Middle East | ▪ Asia Pacific | ▪ Europe |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Blown Film ▪ Collation Shrink ▪ Food Packaging ▪ General Packaging ▪ Grocery Sacks | ▪ Heavy Duty Bags ▪ Industrial Packaging ▪ Label Film ▪ Shrink Film ▪ Stand Up Pouches | ▪ Thin Gauged Consumer Bags ▪ Trash Bags ▪ Trash Can Liners |
| Revision Date | ▪ 09/15/2016 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|-------------------------|---------------|
| Density | 0.952 g/cm ³ | 0.952 g/cm ³ | ASTM D1505 |
| 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.

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.

ExxonMobil™ HDPE HTA 002HD5
High Density Polyethylene Resin

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2024 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com