

ExxonMobil™ HDPE HTA 001HD

High Density Polyethylene (HMW) Resin

Product Description

HTA 001HD is a high molecular weight HDPE film grade. Films made from HTA 001HD exhibit excellent impact and toughness properties as well as high stiffness.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	
Additive	• Antiblock: No	• Slip: No	• Thermal Stabilizer: Yes
Applications	• Blown Film • Grocery Sacks • Liners	• Produce Bags • Produce Bags On A Roll • Refuse Bags	• Thin Gauged Consumer Bags • Trash Can Liners
Revision Date	• 10/2008		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm ³	0.952 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	0.070 g/10 min	0.070 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	4790 psi	33.0 MPa	ASTM D882
Tensile Strength at Yield TD	4210 psi	29.0 MPa	ASTM D882
Tensile Strength at Break MD	8120 psi	56.0 MPa	ASTM D882
Tensile Strength at Break TD	8120 psi	56.0 MPa	ASTM D882
Elongation at Break MD	370 %	370 %	ASTM D882
Elongation at Break TD	390 %	390 %	ASTM D882
Secant Modulus MD - 1% Secant	145000 psi	1000 MPa	ASTM D882
Secant Modulus TD - 1% Secant	145000 psi	1000 MPa	ASTM D882
Dart Drop Impact	200 g	200 g	ASTM D1709A
Elmendorf Tear Strength MD	17 g	17 g	ASTM D1922
Elmendorf Tear Strength TD	25 g	25 g	ASTM D1922

Legal Statement

HTA 001HD can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical 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 10 x die diameter (die diameter/ gap: 100mm/1.0mm (4 in/0.04 in); 215°C (419°F) melt temperature; 60 kg/hr (132 lb/hr) output).

Notes

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

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

© 2009 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on 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, 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. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Chemical Emblem, the "Interlocking X" Device, Enable, Exceed, Exact, Exxco, Escorene, Escor, Iotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.