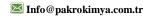
20212 659 26 03



Product Datasheet

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					
Availability ¹	 Latin America 	•	North America		
Applications	 Draw Tape 				
Form(s)	Pellets				
Revision Date	08/21/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.959	g/cm³	0.959	g/cm³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	0.057	g/10 min	0.057	g/10 min	ASTM D1238
					<i>j</i>
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Peak Melting Temperature	271	°F	133	°C	ExxonMobil Method
Crystallization Peak, Tc	246	°F	119	°C	ExxonMobil Method
Film Properties	Typical Value		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	9	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 a 59 mil (1.5 mm) die gap at a rate of 10.75 lbs/hr/in die circumference (1.92 kg/hr/cm).

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

Effective Date: 08/21/2020 Page: 1 of 2 ExxonMobil

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.

ExxonMobil™ HDPE HD 7957.04 High Density Polyethylene Resin



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

©2022 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

Effective Date: 08/21/2020 ExxonMobil Page: 2 of 2