

ExxonMobil™ HDPE HD 9830.02

High Density Polyethylene Resin

Product Description

HD 9830.02 is a blow molding grade high density polyethylene copolymer with a bimodal molecular weight distribution. It provides a very good balance of stress crack resistance, stiffness and impact strength with excellent processability due to its next generation branched structure.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Antistatic: No UV Stabilizer: No
Applications	<ul style="list-style-type: none"> Blow Molding Personal Care Drainage Pipes Sheet Extrusion
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 05/01/2010

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.956 g/cm ³	0.956 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -76 °F	< -60 °C	ASTM D746
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4000 psi	28 MPa	ASTM D638
Tensile Strength at Break	2000 psi	14 MPa	ASTM D638
Flexural Modulus	180000 psi	1200 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	370 hr	370 hr	ASTM D1693B

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	130 ft-lb/in ²	260 kJ/m ²	ASTM D1822

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

1. Values are typical and should not be interpreted as specifications. Values may change with future development. 2. All molded properties were measured on compression molded plaques. 3. Bulk Density: 585 Kg/m³ (36.5 lbs/ft³) 4. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation. 5. ESCR tested using Condition B, 100 % Igepal.

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 HD 9830.02
High Density Polyethylene Resin

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

©2022 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