DOW™ HDPE 35057L
High Density Polyethylene Resin

Overview

HDPE 35057L is a Bimodal High Density Polyethylene intended for Blow Molding applications. This resin exhibit a good balance between stiffness and Environmental Stress Crack Resistance (ESCR). It is especially suitable for the production of bottles, containers and technical hollow articles

Applications:

- Containers for:
  - Household & industrial chemicals (e.g. detergents and softeners)
  - Personal care products and Cosmetics
  - Food products
  - Mineral oils
  - Car care products
- Toys
- Automotive parts

Complies with:

- FDA regulation 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011
- Latin America MERCOSUR - Applications in Contact with Foods: This product complies with the MECOSUR Regulations: GMC 56/92; GMC 39/19 and GMC 02/12

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.956	g/cm³	0.956	g/cm³	ASTM D792
Melt Index					ASTM D1238
190°C/2.16 kg	0.29	g/10 min	0.29	g/10 min	
190°C/21.6 kg	27	g/10 min	27	g/10 min	
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693
122°F (50°C), 100% Igepal, F50	> 200	hr	> 200	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	3630	psi	25.0	MPa	
Break	5510	psi	38.0	MPa	
Tensile Elongation (Break)	950	%	950	%	ASTM D638
Flexural Modulus - 2% Secant	125000	psi	860	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	2.4	ft·lb/in	130	J/m	ASTM D256
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	66		66		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	262	°F	128	°C	ASTM D1525

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

® ™ Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.
Form No. 400-00084180en
Rev: 2020-10-27

THIEN AN PLASTICS | thienanplastics.com | Hotline / Zalo / WeChat / WhatsApp: +84 389 980 742

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Medical Applications Policy

Any and all medical application use of Dow materials, whether a device, a component, or any type of primary or secondary packaging of a medically related object or substance, needs to be reviewed and approved by Dow before any Dow material can be tested in such application.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. **DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

For further information contact your Dow sales or technical representative to request a Medical Application Review Request Form.
Additional details of Dow's Medical Applications Policy are available at: https://www.dow.com/en-us/support/product-safety.html

Tobacco and Marijuana Policy

Dow does not support or intend for its products to be used, directly or indirectly, in the production of tobacco, the manufacture of tobacco products, the manufacture and use of electronic cigarettes (including vaping devices), the production of marijuana, or the manufacture of marijuana products intended for human consumption, where the Dow product (or its residues) may be present in the finished product or be alleged to facilitate the delivery of nicotine, other tobacco components, marijuana, or marijuana components.

Harmful Applications Policy

Dow does not intend for its products to be used in applications specifically intended to harm humans.

Disclaimer

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

NOTICE: This data is based on information Dow believes to be reliable, as demonstrated in controlled laboratory testing. They are offered in good faith, but without guarantee, as conditions and method of use of Dow products are beyond Dow's control. Dow recommends that the prospective user determine the suitability of these materials and suggestions before adopting them on a commercial scale.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability for the accuracy and completeness of such information.

For additional information, not covered by the content of this document, contact us via our web site http://www.dow.com/products_services/.

® ™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.
Form No. 400-00084180en
Rev: 2020-10-27

THIEN AN PLASTICS | thienanplastics.com | Hotline / Zalo / WeChat / WhatsApp: +84 389 980 742

Additional Information

North America	
U.S. & Canada:	1-800-441-4369
	1-989-832-1426
Mexico:	+1-800-441-4369
Latin America	
Argentina:	+54-11-4319-0100
Brazil:	+55-11-5188-9000
Colombia:	+57-1-219-6000
Mexico:	+52-55-5201-4700
Europe/Middle East	+800-3694-6367
	+31-11567-2626
Italy:	+800-783-825
South Africa	+800-99-5078
Asia Pacific	+800-7776-7776
	+603-7965-5392

www.dow.com

This document is intended for use within Latin America

Published: 2005-05-05

© 2021 The Dow Chemical Company

® ™ Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.

Form No. 400-00084180en
Rev: 2020-10-27

THIEN AN PLASTICS | thienanplastics.com | Hotline / Zalo / WeChat / WhatsApp: +84 389 980 742