PAKRO KİMYA
Plastik Hammadde Çözüm Ortağınız

Pakro Kimya Dış Ticaret A.Ş.
İstoç Ticaret Merkezi Aktem Plaza
Kat:5 Daire:33 Bağcılar/İstanbul

0212 659 26 01-02
0212 659 26 03
www.pakrokimya.com.tr
Info@pakrokimya.com.tr

DOW HDPE DGDC-2100 NT 7
High Density Polyethylene Resin

Overview

- High Density Polyethylene (HDPE)
- Complies with:
  - U.S. FDA 21 CFR 177.1520 (c) 3.2a
  - Canadian HPFB No Objection
  - EU, 2002/72/EC
  - Consult the regulations for complete details.

DOW DGDC-2100 NT 7 High Density Polyethylene Resin is a high-molecular weight, high-density film grade resin. This product was specifically designed to offer an optimal balance of physical properties and processability. DGDC-2100 NT7 HDPE resin is ideally suited for use in making grocery sacks, consumer and institutional liners, and merchandise bags.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.948 g/cm³	0.948 g/cm³	ASTM D792
Melt Index			ASTM D1238
190°C/21.6 kg	9.0 g/10 min	9.0 g/10 min	
190°C/2.16 kg	0.070 g/10 min	0.070 g/10 min	
Films	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Film Thickness - Tested	0.500 mil	12.7 µm	
Film Puncture Energy (0.500 mil (12.7 µm))	7.90 in·lb	0.893 J	Dow Method
Film Puncture Force (0.500 mil (12.7 µm))	6.70 lbf	29.8 N	Dow Method
Film Puncture Resistance			Dow Method
0.500 mil (12.7 µm)	128 ft·lb/in³	10.6 J/cm³	
Secant Modulus			ASTM D882
2% Secant, MD: 0.500 mil (12.7 µm)	140000 psi	966 MPa	
2% Secant, TD: 0.500 mil (12.7 µm)	159000 psi	1100 MPa	
Tensile Strength			ASTM D882
MD: Yield, 0.500 mil (12.7 µm)	6140 psi	42.4 MPa	
TD: Yield, 0.500 mil (12.7 µm)	4610 psi	31.8 MPa	
MD: Break, 0.500 mil (12.7 µm)	13600 psi	93.4 MPa	
TD: Break, 0.500 mil (12.7 µm)	9990 psi	68.8 MPa	
Tensile Elongation			ASTM D882
MD: Break, 0.500 mil (12.7 µm)	330 %	330 %	
TD: Break, 0.500 mil (12.7 µm)	410 %	410 %	
Dart Drop Impact (0.500 mil (12.7 µm))	350 g	350 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 0.500 mil (12.7 µm)	11 g	11 g	
TD: 0.500 mil (12.7 µm)	73 g	73 g	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Melting Temperature (DSC)	504 °F	262 °C	Dow Method
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Gloss (45°, 0.500 mil (12.7 µm))	9	9	ASTM D2457
Haze (0.500 mil (12.7 µm))	69 %	69 %	ASTM D1003

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	410 °F	210 °C

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 1.97 in. (50mm); 24:1 L/D
- Melt Temperature: 410 °F (210 °C)
- Output: 8 lb/hr/in. of die circumference
- Die Diameter: 3.94 in. (100mm)
- Blow-Up Ratio: 4:1
- Neck Height: 32 in. (813 mm)

Form No. 400-00071347en
Rev: 2009-03-02

Notes

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

Form No. 400-00071347en
Rev: 2009-03-02

Product Stewardship

The Dow Chemical Company and its subsidiaries ("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

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

a. long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours;
b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
c. use as a critical component in medical devices that support or sustain human life; or
d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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.**

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.

Additional Information

North America		**Europe/Middle East**	+800-3694-6367
U.S. & Canada:	1-800-441-4369		+32-3-450-2240
	1-989-832-1426	Italy:	+800-783-825
Mexico:	+1-800-441-4369		
Latin America		**South Africa**	+800-99-5078
Argentina:	+54-11-4319-0100		
Brazil:	+55-11-5188-9000		
Colombia:	+57-1-219-6000	**Asia Pacific**	+800-7776-7776
Mexico:	+52-55-5201-4700		+603-7965-5392

www.dowplastics.com

This document is intended for use within Asia Pacific, North America

Published: 2003-10-30

Form No. 400-00071347en
Rev: 2009-03-02