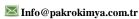


Pakro Kimya Dış Ticaret A.Ş. İstoç Ticaret Merkezi Aktem Plaza Kat:5 Daire:33 Bağcılar/İstanbul

# **200** 0212 659 26 03



# DOWLEX™ 2740 Polyethylene Resin

#### Overview

DOWLEX™ 2740G Polyethylene Resin is suitable for the production of high modulus blown films. The resin offers excellent optical properties and good tear and impact strength and can be used to enable the reduction in gauge of various film structures.

Note: DOWLEX 2740G Polyethylene Resin should comply with FDA regulation 177.1520 and most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

#### Applications:

- Various industrial, consumer and specialty films.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.940 g/cm <sup>3</sup>	0.940 <mark>g/cm³</mark>	ASTM D792 1
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg	(g) 1.0 g/10 min	1.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Puncture Energy (1.97 mil (50.0 µm))	17.7 in·lb	2.00 J	ASTM D5748 2
Film Puncture Force (1.97 mil (50.0 µm))	10.3 lbf	46.0 N	ASTM D5748 2
Film Puncture Resistance			ASTM D5748 2
1.97 mil (50.0 μm)	48.3 ft·lb/in³	4.00 J/cm <sup>3</sup>	
Tensile Modulus			ISO 527-3 <sub>2</sub>
2% Secant, MD: 1.97 mil (50.0 μm)	53700 psi	370 MPa	
2% Secant, TD: 1.97 mil (50.0 μm)	60 <mark>900 psi</mark>	420 MPa	
Tensile Stress			ISO 527-3 <sub>2</sub>
MD: Yield, 1.97 mil (50.0 μm)	3770 psi	26.0 MPa	
TD: Yield, 1.97 mil (50.0 µm)	3630 psi	25.0 MPa	
MD: Break, 1.97 mil (50.0 μm)	6380 psi	44.0 MPa	7
TD: Break, 1.97 mil (50.0 µm)	6240 psi	43.0 MPa	
Tensile Elongation			ISO 527-3 <sub>2</sub>
MD: Break, 1.97 mil (50.0 μm)	690 %	690 %	
TD: Break, 1.97 mil (50.0 µm)	740 %	740 %	
Dart Drop Impact (1.97 mil (50.0 µm))	120 g	120 g	ISO 7765-1/A <sub>2</sub>
Elmendorf Tear Strength			ASTM D1922 2
MD: 1.97 mil (50.0 μm)	130 g	130 g	
TD: 1.97 mil (50.0 µm)	240 g	240 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525 <sub>1</sub>
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	374 to 464 °F	190 to 240 °C	
Extrusion Notes			

### Fabrication Conditions for Blown Film Resin:

- Die Gap 1.6 to 2.5 mm
- Melt Temperature: 190 to 240°C
- Blow-Up Ratio: 1.5 to 3.5
- Recommended Gauge Range: 10 to 150 µm

#### **Notes**

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

- 1 Compression Molded
- 2 Blown film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.

## **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 (or for PELLETHANE™ Polyurethane Elastomers only, which exceeds
- 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);
- use as a critical component in medical devices that support or sustain human life; or
- 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

+800-3694-6367 **North America Europe/Middle East** 1-800-441-4369 U.S. & Canada: +32-3-450-2240 1-989-832-1426 +1-800-441-4369 Mexico:

Latin America South Africa Argentina: +54-11-4319-0100

Brazil: +55-11-5188-9000 Colombia: +57-1-219-6000 Mexico:

+800-7776-7776 **Asia Pacific** +52-55-5201-4700 +60-3-7958-3392

www.dowplastics.com

This document is intended for use within Europe

Published December 2008

© 2008 The Dow Chemical Company



+800-99-5078