

DOWLEX* 2027G

Polyethylene Resin

- Linear Low Density Polyethylene
- For high speed, thin gauge applications
- Improved stiffness
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index, g/10 min	ASTM D 1238	4.0
Density, g/cc	ASTM D 792	0.9410
DSC Melting Point, °F (°C)	Dow Method	261 (127)
Vicat Softening Point, °F (°C)	ASTM D 1525	253 (123)
Film Properties, 1.0 mil (25 µm)		
Dart Impact (Method A), g	ASTM D 1709	43
Elmendorf Tear, g	MD	34
	CD	209
Tensile Yield, psi (MPa)	MD	2352 (16)
	CD	1561 (11)
Ultimate Tensile, psi (MPa)	MD	5661 (39)
	CD	4058 (28)
Ultimate Elongation, %	MD	575
	CD	740
Toughness, ft-lbf/in. ³ (J/cm ³)	MD	1365 (113)
	CD	1498 (124)
Gloss, 45°	ASTM D 2457	86
Haze, %	ASTM D 1003	4.1

Fabrication Conditions For Cast Film:

- Screw Size: 3.5 in. (89 mm); 32:1 L/D
- Melt Temperature: 529°F (276°C)
- Screw Size: 2.5 in. (63.5 mm); 24:1 L/D
- Melt Temperature: 515°F (268°C)
- Chill Roll Temperature: 70°F (21°C)
- Line Speed: 500 fpm (152 m/min)

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

Handling Considerations

Material Safety Data (MSD) sheets for the product are available from Dow Plastics, a business group of The Dow Chemical Company and its subsidiaries, to help customers further satisfy their own safe handling and disposal needs and those that may be required by OSHA. Material Safety Data sheets on Dow products are intended to provide customers with essential information on such topics as Health and Worker Safety, Combustibility, and Disposal Considerations. Such information should be requested from the supplier(s) of any product(s) prior to working with it. As various additives and processing aids used in fabrication have their own safe use profile, their possible influence on handling and disposal must be investigated separately. For "Regulated" uses, such as food contact, your Dow sales representative can obtain compliance letters for specific resins.

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial, and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

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As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess, or manage chemicals or plastics, and that manage used drums. For more details, contact The Dow Chemical Company Customer Information Center at 1-800-441-4369. In Mexico, call 95-800-441-4369.

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This concern is the basis for our Product Stewardship philosophy by which we assess the health and environmental information on our products and take appropriate steps to protect employee and public health, and our environment. Our Product Stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, and disposal 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 help ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel will assist customers in dealing with ecological and product safety considerations. Dow product literature, including MSD sheets, should be consulted prior to use of Dow products. Your Dow Plastics sales representative can arrange the proper contacts, or write to Dow Plastics.

Additional Information

For more information in the United States or Canada, call 1-800-441-4369. In Mexico, call 95-800-441-4369.

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Dow Plastics

We don't succeed unless you do.