

DOWLEX* 2607G

Polyethylene Resin

Melt Index:	2.3
Density:	0.918

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Polyethylene Resin is specifically designed for large/high output cast film lines to make high performance industrial stretch films.

Films made from DOWLEX 2607G Polyethylene Resin exhibit an excellent balance of processability, mechanical and stretchability performance properties.

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Polyethylene Resin is to be used as a core resin in coextruded cast film structures together with a cling resin for films in the thickness range between 10 and 35 microns.

Note:

DOWLEX 2607G Polyethylene Resin should comply with FDA regulation 177.1520 and with 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 for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- Cast Stretch Wrap Film.

Resin Properties ⁽¹⁾	Unit	Test Method	Values
Melt Index, 190 °C/2.16 kg	g/10 min	ISO 1133	2.3
Density	g/cm ³	ASTM D-792	0.918
Cast Film Properties, 23 µm ^(1,2)	Unit	Test Method	Values
Puncture Resistance			
Elongation	J	ASTM D-5748	160
Force	N		44
Dart Impact (Method A)	g	ISO 7765-1	150
Elmendorf Tear	g	MD	190
		CD	420
Tensile Yield	MPa	MD	8
		CD	8
Ultimate Tensile	MPa	MD	35
		CD	29
Ultimate Elongation	%	MD	460
		CD	700
Stretch Performance ^(1,2)	Unit	Test Method	Values
Maximum Stretch	%	DOW METHOD	345
Maximum Stretch Force	kg	DOW METHOD	37

Fabrication Conditions For Cast Film Extrusion:

- Chill Roll Temperature: 20 to 40° C.
- Melt Temperature: 220 to 280° C.
- Recommended Gauge Range: 10 to 35 µm.

(1) Typical values; not to be construed as specification limits.

(2) Cast Film fabrication at 250 m/min.

-See "Safety and Handling Considerations" attached

Safety and Handling Considerations

Safety Considerations

Material Safety Data Sheets for Dow polyethylene resins are available from the Dow sales offices to help customers further satisfy their own safe handling and disposal needs. Such information should be requested from the supplier(s) of any product(s) prior to working with it (them). The comments that follow are pertinent only to the resins discussed, as supplied. Various additives and processing aids used in fabrication will have their own safe use profile and must be investigated separately.

Health and Safety

Polyethylene resins are among the most inert commercial polymers and constitute no hazard in normal handling. For "Regulated" uses, such as food contact, your Dow sales representative can obtain compliance letters for specific resins.

Normal good housekeeping practice should be followed. Workers should be protected from possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours; workers should be assured of supply of fresh air. Workplace environments should be kept clean and free of dust.

Combustibility

Polyethylene resins will burn when supplied with adequate amounts of heat and oxygen. They should be handled and stored away from contact with direct flames and/or other

ignition sources. In burning, polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water fog preferred. In enclosed areas, fire fighters should be provided with self-contained breathing apparatus.

Recycling

Polyethylene resins can be recycled. Production rejects and/or conversion waste should preferably be recycled instead of being disposed of.

Disposal

In disposal of any wastes, be certain all applicable national and local regulations are met. If these regulations are met, the following is applicable for the polyethylene resins as supplied. If fillers, processing aids or other materials have been added, their possible influence on handling and disposal should be judged separately.

Polyethylene resins can be disposed of either by incineration or landfill. With properly controlled industrial, commercial or municipal incineration, particulate or gaseous discharge into the air can be maintained within allowable levels. Thermoplastic products, such as polyethylene resins, have high heat values and should be incinerated only in units designed to handle high heats of combustion.

In landfill, polyethylene resins are inert, do not degrade quickly, form a strong and permanent soil base, and evolve virtually no

gases or leachates known to pollute water resources.

Product Stewardship

The Dow Chemical Company 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 health and environmental information on our products and take appropriate steps to protect employee and public health, and our environment. Our Product Stewardship programme 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.

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