



Partners in Success

EFDC-7087

LLDPE Film Extrusion Resin

DESCRIPTION

EFDC-7087 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films made from EFDC-7087 have good toughness, high tensile strength and outstanding puncture resistance. EFDC-7087 contains high levels of slip and antiblocking agent. The product offers excellent draw down capability for thinner gauge film production. The films have good seal-ability and machinability for easy conversion on high-speed machines

APPLICATIONS

EFDC-7087 is recommended for the manufacture of thin gauge liner films, garment bags and other industrial and consumer packaging applications requiring toughness and puncture resistance.

TYPICAL PROPERTIES

Properties	Units	Test Method	Typical Value
Resin Properties			
Melt Index, I _{2.16}	g/10 min	ASTM D 1238	1.0
Density	g/cm ³	ASTM D792	0.918
Melting Point	°C	EQUATE	124
Bulk Density	Kg/m ³	ASTM D 1895	530
Blown Film Properties*			
Gauge	Microns		25
Tensile Strength@ Break	MD MPa	ASTM D 882	34
	TD		26
1% Secant Modulus	MD MPa	ASTM D 882	193
	TD		221
Elmendorf Tear	MD N/mm	ASTM D 1922	35
	TD		135
Dart Impact, F ₅₀	g	ASTM D 1709 A	105
Puncture Energy	J/mm	EQUATE	70
Haze	%	ASTM D 1003	14
Gloss, 45°	-	ASTM D 2457	55

* Film properties are typical of blown film extruded at 2:1 blow-up ratio.

Actual properties may vary depending upon operating conditions and additive package.

ASTM: American Society for Testing and Materials

TYPICAL EXTRUSION CONDITIONS

Property	Condition
Barrel Zone 1, °C	175
Barrel Zone 2, °C	185
Barrel Zone 3, °C	190
Barrel Zone 4, °C	185
Adapter, °C	185
Head and Die, °C	185
Melt Temperature,	185
Die Gap, mm	> 1.8

FOOD CONTACT USAGE

EFDC-7087 meets US FDA and EC regulations for food contact use. Specific certificates are available upon request.

AVAILABILITY

EFDC-7087 is supplied in 25-Kg bags in secured pallets of 55 bags (1.375 MT net). It is also supplied in sea bulk containers of up to 20 MT.



Partners in Success

STORAGE AND HANDLING

EFDC-7087 is supplied in pellet form and is readily conveyed on conventional polyethylene bulk handling equipment. The bulk handling system should be designed to prevent accumulation of fines and dust particles that can pose an explosion hazard. Ensure all equipment is properly grounded. The product should be stored in a cool dry shaded area away from dust, sunlight and heat. For more details on storage and handling see our Polyethylene Storage and Handling Guide. Also carefully review the Material Safety Data Sheet supplied with this product for health, safety and waste considerations.

IMPORTANT NOTICE

The information supplied in this bulletin to the best of our knowledge is accurate and factual as of the date printed. It is offered solely as a convenience to EQUATE's customers and is intended only as a guide for EFDC-7087. Since the user's specific applications and conditions of use are beyond EQUATE's control, EQUATE makes no warranty or representation regarding results that may be obtained by the user. It shall be the responsibility of the user to determine the suitability of the product for the user's specific application. The information disclosed in this document is not to be construed as a recommendation to use the product in infringement of any patent rights covering the usage.

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS

EQUATE Petrochemical Company does not recommend any EQUATE product or sample product for use: (A) in any commercial or developmental application which is intended for contact with human internal body fluids or body tissues, regardless of the length of time involved. (B) in any cardiac prosthetic device application, regardless of the length of the time involved, including, without limitation, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices; (C) as a critical component in any medical device that supports or sustains human life; and (D) specifically by pregnant women or in any applications designed specifically to promote or interfere with human reproduction.

Issue Date 30/June/2013

Revision: 1.1