



## EFDA-7047

## LLDPE Film Extrusion Resin

### DESCRIPTION

EFDA-7047 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films made from EFDA-7047 have good toughness, high tensile strength and outstanding puncture resistance. They also have good sealability and machinability for easy conversion. EFDA-7047 does not contain any slip or antiblocking agent.

### APPLICATIONS

EFDA-7047 is recommended for the manufacture of liners, stretch film, heavy-duty films and general purpose blown films for a variety of applications. The resin is also used in conjunction with other polyethylene types for improved performance considerations. To obtain desirable surface effects for specific applications appropriate slip and/or antiblocking masterbatches should be considered.

### TYPICAL PROPERTIES

Properties		Units	Test Method	Typical Value
<b>Resin Properties</b>				
Melt Index, I <sub>2.16</sub>		g/10 min	ASTM D 1238	1.0
Density		g/cm <sup>3</sup>	ASTM D 1505	0.918
Melting Point		°C	EQUATE	124
Bulk Density		Kg/m <sup>3</sup>	ASTM D 1895	530
<b>Blown Film Properties*</b>				
Gauge		Microns		25
Tensile Strength	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 <sub>50</sub>		g	ASTM D 1709 A	100
Puncture Energy		J/mm	EQUATE	72
Haze		%	ASTM D 1003	10
Gloss, 45°		-	ASTM D 2457	60

\* 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

Barrel Zone 1, °C	195
Barrel Zone 2, °C	210
Barrel Zone 3, °C	220
Barrel Zone 4, °C	210
Adapter, °C	210
Head and Die, °C	210
Melt Temperature, °C	215
Die gap, mm	>1.8

### FOOD CONTACT USAGE

EFDA-7047 can be used for all food contact applications including those designed to hold food during cooking. It conforms to US FDA Regulation 21 CFR 177.1520 as well as EC Directive 90/128/EEC and its amendments to-date. Food contact suitability certificate is available upon request.

### AVAILABILITY

EFDA-7047 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 15 MT capacity.



#### **STORAGE AND HANDLING**

EFDA-7047 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 EFDA-7047. 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.