

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.

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 D 1505	0.918
Melting Point		°C	EQUATE	124
Blown Film Properties*				
Tensile Strength@ Break	MD	MPa	ASTM D 882	34
	TD			26
Elongation @ Break	MD	MPa	ASTM D 882	800
	TD			850
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	100
Puncture Energy		J/mm	EQUATE	65
Haze		%	ASTM D 1003	14
Gloss, 45°		-	ASTM D 2457	50

* Film properties are typical of 25 micron blown film extruded at 2:1 blow-up ratio.

ASTM: American Society for Testing and Materials

Values shown are typical and not to be construed as specification.

TYPICAL EXTRUSION CONDITIONS

Extrusion Temperatures, °C	180-210
Adapter, Head and Die, °C	210
Melt Temperature, °C	210
Die gap, mm	> 1.8

FOOD CONTACT USAGE

Food contact suitability certificates are available upon request.

AVAILABILITY

EFDC-7087 is supplied in 25-Kg bags in secured pallets of 55 bags (1,375 MT net) and in sea bulk containers.

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. Also carefully review the **Material Safety Data Sheet (MSDS)** supplied with this product for health, safety and waste considerations.