



Producer: EOUATE / Kuwait

EFDC - 7087

Description:

EFDC-7087 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Film made from **EFDA-7087** have good toughness, high tensile strength and outstanding puncture resistance. **EFDA-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 sealability 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.

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
Bulk Density	Kg/m ³	ASTM D 1895	530
Blown Film Properties*			
Gauge	Microns		25
Tensile strength MD	MPa	ASTM D 882	34
Tensile strength TD	MPa	ASTM D 882	26
1% Secant Modulus MD	Mpa	ASTM D 882	193
1% Secant Modulus TD	Mpa	ASTM D 882	221
Elmendorf Tear MD	N/mm	ASTM D 1922	35
Elmendorf Tear TD	N/mm	ASTM D 1922	135
Dart Impact, F ₅₀	g	ASTM D 1709 A	100
Puncture Energy	J/mm	EQUATE	75
Haze	%	ASTM D 1003	17
Gloss, 45°	-	ASTM D 2457	50

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

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

ASTM-American Society for Testing and Materials



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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:

EFDC-7087 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:

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 15 MT capacity.

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.