



Producer: EOUATE / Kuwait

## EFDC - 7050

### Description:

**EFDC-7050** is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films extruded from **EFDC-7050** have good toughness and high tensile strength and puncture resistance. The product offers excellent draw down capability for making thinner gauge films. EFDC contains high levels of slip and antiblocking agent. It offers excellent sealing and machining characteristics for high-speed film converting operations.

### Applications :

**EFDC-7050** is recommended for the manufacture of thin gauge liner films, garment bags and films for other industrial, food packaging and other general-purpose applications requiring toughness and puncture resistance.

PROPERTIES	UNITS	TEST METHOD	TYPICAL VALUE
<b><u>Resin Properties</u></b>			
Melt Index, I <sub>2.16</sub>	g/10 min	ASTM D 1238	2.0
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><u>Blown Film Properties*</u></b>			
Gauge	Microns		25
Tensile strength MD/TD	MPa	ASTM D 882	31 23
1% Secant Modulus MD/TD	MPa	ASTM D 882	195 220
Elmendorf Tear MD/TD	N/mm	ASTM D 1922	31 124
Dart Impact, F <sub>50</sub>	g	ASTM D 1709 A	85
Puncture Energy	J/mm	EQUATE	60
Haze	%	ASTM D 1003	14
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	180
Barrel Zone 2, °C	210
Barrel Zone 3, °C	200
Barrel Zone 4, °C	190
Adapter, °C	205
Head and Die, °C	205
Melt Temperature, °C	210
Die gap, mm	> 1.8

**Food contact usage:**

**EFDC-7050** 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-7050** 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-7050** 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.