

# HANWHA

## Linear Low Density Polyethylene

# 3120

Blown Film Grade

**MELT INDEX** 1.0  
**DENSITY** 0.920

HANWHA LLDPE 3120 is manufactured by Unipol process and designed for general purpose and agricultural film . LLDPE 3120 has well balanced property of mechanical property, processability and optical property

This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.1.a.

### ■ Outstanding Properties

Mechanical Property  
Optical Property  
Processability

### ■ Processing Conditions

Melt Temperature : 150 ~ 190 °C  
Blow-up Ratio : 2 ~ 3  
Optimum Gage Range : 0.03 ~ 0.1 mm

### ■ Additives

Antioxidant, Slip agent, Anti-blocking agent

### ■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	1.0
Density	g/cc	ASTM D1505	0.920
Vicat Softening Point	°C	ASTM D1525	103
Melting Point	°C	HCC Method	122
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	220
Elongation at Break	%	ASTM D638	900
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	<-76
Film Properties	Unit	Test Method	Value
Film Thickness	mm	HCC Method	0.03
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	420
			380
Elongation at Break	%	ASTM D882	650
			750
Tensile Tear Strength	Kg/cm	ASTM D1004	120
			125
Dart Impact Strength	g	ASTM D1709	140
Haze	%	ASTM D1003	10.0

1. These are typical properties : not to be construed as specification.
2. The value for this property is dependent on part geometry and fabrication conditions.

