

# 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	MD	420
			TD	380
Elongation at Break	%	ASTM D882	MD	650
			TD	750
Tensile Tear Strength	Kg/cm	ASTM D1004	MD	120
			TD	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.

