

HANWHA

Linear Low Density Polyethylene

3121UV

Blown Film Grade

MELT INDEX **1.1**
DENSITY **0.919**

HANWHA LLDPE 3121UV is manufactured by Spherilene process and designed for general mulch film. LLDPE 3121UV has good mechanical property, optical property and weatherability.

▣ Outstanding Properties

Mechanical Property
 Optical Property
 Weatherability

▣ 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-block agent, UV Stabilizer

▣ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	1.1
Density	g/cc	ASTM D1505	0.919
Vicat Softening Point	°C	ASTM D1525	103
Melting Point	°C	HCC Method	123
Tensile Strength at Break	kg/cm ²	ASTM D638	225
Elongation at Break	%	ASTM D638	900
Brittleness Temperature, F ₀	°C	ASTM D746	< -76
Film Properties	Unit	Test Method	Value
Film Thickness	mm	HCC Method	0.03
Tensile Strength at Break	kg/cm ²	ASTM D882	MD 430
			TD 390
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	130
Haze	%	ASTM D1003	14.0

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.

