

HANWHA

Linear Low Density Polyethylene

3123

Blown Film Grade

MELT INDEX 1.0
DENSITY 0.924

HANWHA LLDPE 3123 is manufactured by Unipol process and designed for lamination film. LLDPE 3123 has well balanced property of optical property and processability.

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

▣ Outstanding Properties

Excellent Processability
Good Optical Property
Yellowing Resistance

▣ Processing Conditions

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

▣ Additives

Antioxidant, Anti-block agent, Polymer Processing Aid

▣ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	1.0
Density	g/cc	ASTM D1505	0.924
Vicat Softening Point	°C	ASTM D1525	103
Melting Point	°C	HCC Method	122
Tensile Strength at Break	kg/cm ²	ASTM D638	220
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 390
			TD 340
Elongation at Break	%	ASTM D882	MD 740
			TD 870
Tensile Tear Strength	Kg/cm	ASTM D1004	MD 230
			TD 630
Dart Impact Strength	g	ASTM D1709	130
Haze	%	ASTM D1003	12.8

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.

