

HANWHA

Linear Low Density Polyethylene

3304

Blown Film Grade

MELT INDEX **1.1**
DENSITY **0.922**

HANWHA LLDPE 3304 is manufactured by Spherilene process and designed for general purpose film. LLDPE 3304 has well balanced property of mechanical property and processability.

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

▣ **Outstanding Properties**

Excellent Processability
 Good Mechanical Property

▣ **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

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	1.1
Density	g/cc	ASTM D1505	0.922
Vicat Softening Point	°C	ASTM D1525	105
Melting Point	°C	HCC Method	125
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 420
			TD 370
Elongation at Break	%	ASTM D882	MD 550
			TD 700
Tensile Tear Strength	Kg/cm	ASTM D1004	MD 120
			TD 125
Dart Impact Strength	g	ASTM D1709	130
Haze	%	ASTM D1003	12.0

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.

