

HANWHA

Linear Low Density Polyethylene

3303

Blown Film Grade

MELT INDEX **1.0**
DENSITY **0.924**

HANWHA LLDPE 3303 is manufactured by Spherilene process and designed for general purpose film. LLDPE 3303 has well balanced property of mechanical property and anti-blocking property.

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

■ Outstanding Properties

Good Mechanical Property
 Excellent Processability
 Excellent Anti-blocking

■ Processing Conditions

Melt Temperature : 150 ~ 190 °C
 Blow-up Ratio : 2 ~ 3
 Optimum Gage Range : 0.02 ~ 0.1 mm

■ Additives

Antioxidant, Slip agent, Anti-block agent

■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	1.0
Density	g/cc	ASTM D1505	0.924
Vicat Softening Point	°C	ASTM D1525	105
Melting Point	°C	HCC Method	125
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 410
			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	100
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.



Hanwha B/D, 1 Changgyo-dong, Chung-ku, Seoul, Korea. Tel : 82-2-729-2700 Fax : 82-2-729-2999