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 ℃
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	1.1
Density		g/cc	ASTM D1505	0.922
Vicat Softening Point		℃	ASTM D1525	105
Melting Point		℃	HCC Method	125
Tensile Strength at Break		kg/cm^2	ASTM D638	220
Elongation at Break		%	ASTM D638	900
Brittleness Temperature, F_0		℃	ASTM D746	< −76
Film Properties		**Unit**	**Test Method**	**Value**
Film Thickness		mm	HCC Method	0.03
Tensile Strength at Break	MD	kg/cm^2	ASTM D882	420
	TD			370
Elongation at Break	MD	%	ASTM D882	550
	TD			700
Tensile Tear Strength	MD	Kg/cm	ASTM D1004	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.

Hanwha Chemical

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