

# HANWHA

## Linear Low Density Polyethylene

# 3322

Blown Film Grade

**MELT INDEX**      **0.9**  
**DENSITY**            **0.917**

HANWHA LLDPE 3322 is manufactured by Spherilene process and designed for heavy duty film. LLDPE 3322 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  
 Mechanical Property

▣ **Processing Conditions**

Melt Temperature : 150 ~ 190 °C  
 Blow-up Ratio : 2 ~ 3  
 Optimum Gage Range : 0.03 ~ 0.2 mm

▣ **Additives**

Antioxidant, Anti-block agent

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.9
Density	g/cc	ASTM D1505	0.917
Vicat Softening Point	°C	ASTM D1525	99
Melting Point	°C	HCC Method	123
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	210
Elongation at Break	%	ASTM D638	930
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76
Film Properties	Unit	Test Method	Value
Film Thickness	mm	HCC Method	0.03
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	MD 440
			TD 360
Elongation at Break	%	ASTM D882	MD 650
			TD 700
Tensile Tear Strength	Kg/cm	ASTM D1004	MD 130
			TD 115
Dart Impact Strength	g	ASTM D1709	>500
Haze	%	ASTM D1003	14

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.

