

# HANWHA Low Density Polyethylene

# 5321

Blown Film Grade

MELT INDEX      **3.0**  
DENSITY        **0.921**

HANWHA LDPE 5321 is manufactured by DOW tubular high pressure process and designed for variety of film application such as general package film. LDPE 5321 has well balanced property of high clarity, mechanical property and processability.

This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 2.1.

## ■ Outstanding Properties

Excellent Optical Property  
Good Mechanical Property  
Good Processability

## ■ Processing Conditions

Melt Temperature : 140 ~ 170°C  
Blow-up Ratio : 2 ~ 3  
Optimum Gage Range : 0.025 ~ 0.1 mm

## ■ Additives

Slip agent, Anti-block agent

## ■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	3.0
Density	g/cc	ASTM D1505	0.921
Vicat Softening Point	°C	ASTM D1525	88
Melting Point	°C	HCC Method	109
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	130
Elongation at Break	%	ASTM D638	600
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	MD TD	kg/cm <sup>2</sup>	225 175
Elongation at Break	MD TD	%	320 550
Tensile Tear Strength	MD TD	kg/cm	95 85
Dart Impact Strength	g	ASTM D1709	80
Haze	%	ASTM D1003	6

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.

