

# HANWHA

## Low Density Polyethylene

# 5312P

Blown Film Grade

**MELT INDEX**      **0.5**  
**DENSITY**            **0.921**

HANWHA LDPE 5312P is manufactured by DOW tubular high pressure process and designed for variety of film application such as shrink and greenhouse film. LDPE 5312P has well balanced property of heat shrink, mechanical property and processability.

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

▣ **Outstanding Properties**

Excellent Property of Heat Shrink  
 Good Mechanical Property  
 Good Processability

▣ **Processing Conditions**

Melt Temperature : 140 ~ 180°C  
 Blow-up Ratio : 2 ~ 3  
 Optimum Gage Range : 0.05 ~ 0.15 mm

▣ **Additives**

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.5
Density	g/cc	ASTM D1505	0.921
Vicat Softening Point	°C	ASTM D1525	93
Melting Point	°C	HCC Method	109
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	175
Elongation at Break	%	ASTM D638	800
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76
Film Properties	Unit	Test Method	Value
Film Thickness	mm	HCC Method	0.05
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	MD 265
			TD 225
Elongation at Break	%	ASTM D882	MD 240
			TD 550
Tensile Tear Strength	kg/cm	ASTM D1004	MD 110
			TD 85
Dart Impact Strength	g	ASTM D1709	115
Haze	%	ASTM D1003	9.0

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.

