

# HANWHA

## Low Density Polyethylene

# 5310

Blown Film Grade

**MELT INDEX**      **0.8**  
**DENSITY**            **0.923**

HANWHA LDPE 5310 is manufactured by ICI autoclave high pressure process and designed for variety of film application such as agricultural film and shrink film. LDPE 5310 has well balanced property of mechanical property and processability.

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

▣ **Outstanding Properties**

Excellent Processability  
 Good Mechanical Property  
 Shrinkage

▣ **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	0.8
Density	g/cc	ASTM D1505	0.923
Vicat Softening Point	°C	ASTM D1525	92
Melting Point	°C	HCC Method	111
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	140
Elongation at Break	%	ASTM D638	700
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 260
			TD 220
Elongation at Break	%	ASTM D882	MD 400
			TD 600
Tensile Tear Strength	kg/cm	ASTM D1004	MD 100
			TD 95
Dart Impact Strength	g	ASTM D1709	95
Haze	%	ASTM D1003	11.0

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.

