

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 ²	ASTM D638	140	
Elongation at Break	%	ASTM D638	700	
Brittleness Temperature, F ₀	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.05	
Tensile Strength at Break	kg/cm ²	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.

