

HANWHA

Low Density Polyethylene

5316

Blown Film Grade

MELT INDEX **0.8**
DENSITY **0.922**

HANWHA LDPE 5316 is manufactured by DOW tubular high pressure process and designed for variety of film application such as greenhouse film. LDPE 5316 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 ~ 180°C
 Blow-up Ratio : 2 ~ 3
 Optimum Gage Range : 0.05 ~ 0.15 mm

▣ **Additives**

Slip agent, Anti-block agent

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value	
Melt Index	g/10min	ASTM D1238	0.8	
Density	g/cc	ASTM D1505	0.922	
Vicat Softening Point	°C	ASTM D1525	92	
Melting Point	°C	HCC Method	110	
Tensile Strength at Break	kg/cm ²	ASTM D638	160	
Elongation at Break	%	ASTM D638	800	
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	280
			TD	550
Tensile Tear Strength	kg/cm	ASTM D1004	MD	110
			TD	95
Dart Impact Strength	g	ASTM D1709	100	
Haze	%	ASTM D1003	8	

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.

