

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 ²	ASTM D638	130	
Elongation at Break	%	ASTM D638	600	
Brittleness Temperature, F ₀	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.03	
Tensile Strength at Break	kg/cm ²	ASTM D882	MD	225
			TD	175
Elongation at Break	%	ASTM D882	MD	320
			TD	550
Tensile Tear Strength	kg/cm	ASTM D1004	MD	95
			TD	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.

