

# HANWHA

## Low Density Polyethylene

# 5305

Blown Film Grade

**MELT INDEX**      **3.0**  
**DENSITY**            **0.921**

HANWHA LDPE 5305 is manufactured by DOW tubular high pressure process and designed for variety of film application such as high transparent package film. LDPE 5305 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	110
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	110
Elongation at Break	%	ASTM D638	650
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76
Film Properties	Unit	Test Method	Value
Film Thickness	mm	HCC Method	0.03
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	MD 230
			TD 180
Elongation at Break	%	ASTM D882	MD 350
			TD 550
Tensile Tear Strength	kg/cm	ASTM D1004	MD 90
			TD 85
Dart Impact Strength	g	ASTM D1709	85
Haze	%	ASTM D1003	4.0

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.

