

# HANWHA

## Low Density Polyethylene

# 5302

Blown Film Grade

**MELT INDEX**      **0.3**  
**DENSITY**            **0.922**

HANWHA LDPE 5302 is manufactured by DOW tubular high pressure process and designed for variety of film application such as heavy duty and greenhouse film. LDPE 5302 has well balanced mechanical property and processability.

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

**▣ Outstanding Properties**

Good Mechanical Property  
 Good Processability

**▣ Processing Conditions**

Melt Temperature : 150 ~ 190°C  
 Blow-up Ratio : 2 ~ 3  
 Optimum Gage Range : 0.05 ~ 0.2 mm

**▣ Additives**

Anti-block agent

**▣ Physical Properties**

Physical Properties	Unit	Test Method	Value	
Melt Index	g/10min	ASTM D1238	0.3	
Density	g/cc	ASTM D1505	0.922	
Vicat Softening Point	°C	ASTM D1525	94	
Melting Point	°C	HCC Method	110	
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	175	
Elongation at Break	%	ASTM D638	750	
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.08	
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	MD	275
			TD	235
Elongation at Break	%	ASTM D882	MD	350
			TD	600
Tensile Tear Strength	kg/cm	ASTM D1004	MD	110
			TD	90
Dart Impact Strength	g	ASTM D1709	250	
Haze	%	ASTM D1003	17.0	

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.

