

# HANWHA

## Metalocene LLDPE

# M1810HN

Blown Film Grade

**MELT INDEX**      **1.0**  
**DENSITY**            **0.920**

HANWHA mLLDPE M1810HN is manufactured by Unipol process and designed for lamination film and general packaging film. mLLDPE M1810HN has good low temperature sealing property and well balanced property of mechanical property, processability and optical property

This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.1.a.

▣ **Outstanding Properties**

Mechanical Property  
 Optical Property  
 Low Temperature Sealing Property

▣ **Processing Conditions**

Melt Temperature : 150 ~ 190 °C  
 Blow-up Ratio : 2 ~ 3  
 Optimum Gage Range : 0.03 ~ 0.1 mm

▣ **Additives**

Antioxidant, Processing Aid, Anti-blocking agent

▣ **Physical Properties**

Physical Properties	Unit	Test Method	Value	
Melt Index	g/10min	ASTM D1238	1.0	
Density	g/cc	ASTM D1505	0.920	
Vicat Softening Point	°C	ASTM D1525	100	
Melting Point	°C	HCC Method	120	
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	450	
Elongation at Break	%	ASTM D638	670	
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.05	
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D882	MD	530
			TD	420
Elongation at Break	%	ASTM D882	MD	520
			TD	530
Elmendorf Tear Strength	Kg/cm	ASTM D1004	MD	510
			TD	730
Dart Impact Strength	g	ASTM D1709	680	
Haze	%	ASTM D1003	10	

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.

