

# HANWHA

# M1810HA

## Metallocene LLDPE

Blown Film Grade

**MELT INDEX  
DENSITY**

**1.0  
0.920**

HANWHA mLLDPE M1810HA is manufactured by Unipol process and designed for lamination film and general packaging film. mLLDPE M1810HA 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, Slip agent, 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	11

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.

