

HANWHA

Metalocene LLDPE

M2010EN

Agricultural Film, Blown Film

MELT INDEX **1.0**
DENSITY **0.918**

HANWHA mLLDPE M2010EN is manufactured by Unipol process and designed for general purpose and agricultural film. mLLDPE M2010EN has 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
 Processability

▣ Processing Conditions

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

▣ Additives

Antioxidant, Processing Aid

▣ Physical Properties

Physical Properties	Unit	Test Method	Value	
Melt Index	g/10min	ASTM D1238	1.0	
Density	g/cc	ASTM D1505	0.918	
Vicat Softening Point	°C	ASTM D1525	94	
Melting Point	°C	HCC Method	113	
Tensile Strength at Break	kg/cm ²	ASTM D638	440	
Elongation at Break	%	ASTM D638	750	
Brittleness Temperature, F ₀	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.05	
Tensile Strength at Break	kg/cm ²	ASTM D882	MD	440
			TD	320
Elongation at Break	%	ASTM D882	MD	400
			TD	520
Elmendorf Tear Strength	Kg/cm	ASTM D1004	MD	470
			TD	860
Dart Impact Strength	g	ASTM D1709	490	
Haze	%	ASTM D1003	8	

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.

