

HANWHA

M2703EN

Metallocene LLDPE

Blown Film, Shrink Film, Heavy Duty Bags

**MELT INDEX
DENSITY**

**0.3
0.929**

HANWHA mLLDPE M2703EN is manufactured by Unipol process and designed for shrink film and heavy duty bags. mLLDPE M2703EN 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
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	0.3
Density	g/cc	ASTM D1505	0.929
Vicat Softening Point	°C	ASTM D1525	100
Melting Point	°C	HCC Method	119
Tensile Strength at Break	kg/cm ²	ASTM D638	410
Elongation at Break	%	ASTM D638	1240
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 530
			TD 470
Elongation at Break	%	ASTM D882	MD 510
			TD 650
Elmendorf Tear Strength	Kg/cm	ASTM D1004	MD 150
			TD 1000
Dart Impact Strength	g	ASTM D1709	310
Haze	%	ASTM D1003	12

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.

