

HANWHA Metallocene LLDPE

M3505EN

Shrink Film, Heavy Duty Bags, Lamination Film

MELT INDEX

0.5

DENSITY

0.935

HANWHA mLLDPE M3505EN is manufactured by Unipol process and designed for shrink film and heavy duty bags. mLLDPE M3505EN 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
Stiffness
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	0.5
Density	g/cc	ASTM D1505	0.935
Vicat Softening Point	°C	ASTM D1525	104
Melting Point	°C	HCC Method	123
Tensile Strength at Break	kg/cm ²	ASTM D638	350
Elongation at Break	%	ASTM D638	830
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	MD TD	kg/cm ²	460 340
Elongation at Break	MD TD	%	480 650
Elmendorf Tear Strength	MD TD	Kg/cm	80 930
Dart Impact Strength	g	ASTM D1709	150
Haze	%	ASTM D1003	17

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.



Hanwha Solutions

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