

HANWHA

Low Density Polyethylene

5312P

Blown Film Grade

MELT INDEX **0.5**
DENSITY **0.921**

HANWHA LDPE 5312P is manufactured by DOW tubular high pressure process and designed for variety of film application such as shrink and greenhouse film. LDPE 5312P has well balanced property of heat shrink, mechanical property and processability.

This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 2.1.

■ Outstanding Properties

Excellent Property of Heat Shrink
Good Mechanical Property
Good Processability

■ Processing Conditions

Melt Temperature : 140 ~ 180°C
Blow-up Ratio : 2 ~ 3
Optimum Gage Range : 0.05 ~ 0.15 mm

■ Additives

■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.5
Density	g/cc	ASTM D1505	0.921
Vicat Softening Point	°C	ASTM D1525	93
Melting Point	°C	HCC Method	109
Tensile Strength at Break	kg/cm ²	ASTM D638	175
Elongation at Break	%	ASTM D638	800
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	kg/cm ²	ASTM D882	265
TD			225
Elongation at Break MD	%	ASTM D882	240
TD			550
Tensile Tear Strength MD	kg/cm	ASTM D1004	110
TD			85
Dart Impact Strength	g	ASTM D1709	115
Haze	%	ASTM D1003	9.0

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.



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