

HANWHA Low Density Polyethylene

5301

Medical/Cosmetic tube Grade

MELT INDEX **0.3**
DENSITY **0.921**

HANWHA LDPE 5301 is manufactured by DOW tubular high pressure process and designed for variety of film application such as shrink, heavy duty and greenhouse film. LDPE 5301 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 : 150 ~ 190°C
Blow-up Ratio : 2 ~ 3
Optimum Gage Range : 0.05 ~ 0.2 mm

■ Additives

■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.3
Density	g/cc	ASTM D1505	0.921
Vicat Softening Point	°C	ASTM D1525	94
Melting Point	°C	HCC Method	110
Tensile Strength at Break	kg/cm ²	ASTM D638	180
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	0.08
Tensile Strength at Break	MD TD	kg/cm ²	280 240
Elongation at Break	MD TD	%	350 600
Tensile Tear Strength	MD TD	kg/cm	110 95
Dart Impact Strength	g	ASTM D1709	250
Haze	%	ASTM D1003	16.0

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.

