

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 Medical/Cosmetic tubu. 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	kg/cm ²	ASTM D882	MD 280
			TD 240
Elongation at Break	%	ASTM D882	MD 350
			TD 600
Tensile Tear Strength	kg/cm	ASTM D1004	MD 110
			TD 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.

