

# 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 <sup>2</sup>	ASTM D638	180	
Elongation at Break	%	ASTM D638	800	
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	< -76	
Film Properties	Unit	Test Method	Value	
Film Thickness	mm	HCC Method	0.08	
Tensile Strength at Break	kg/cm <sup>2</sup>	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.

