

# HANWHA LDPE 5301

Low Density Polyethylene

Hanwha Chemical

## Message:

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.

General Information			
Features	Workability, good		
	Good thermal shrinkage		
	No additive		
Uses	Films		
	Shrinkable film		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	17.7	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	80	μm	
Tensile Strength			ASTM D882
MD: Broken, 80 μm	27.5	MPa	ASTM D882
TD: Broken, 80 μm	23.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 80 μm	110	%	ASTM D882
TD: Broken, 80 μm	95	%	ASTM D882
Dart Drop Impact (80 μm)	250	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 80.0 μm	343.2	kN/m	ASTM D1004
TD : 80.0 μm	588.4	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	94.0	°C	ASTM D1525
Melting Temperature	110	°C	

Optical	Nominal Value	Unit	Test Method
Haze (80.0 μm)	16	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	
Extrusion instructions			

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.05 to 0.2 mm

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#### Recommended distributors for this material

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