

# HANWHA LLDPE HS1100

Linear Low Density Polyethylene

Hanwha Chemical

## Message:

HANWHA LLDPE HS1100 is high strength LLDPE manufactured by Unipol process and designed for heavy-duty film. LLDPE HS1100 has excellent mechanical property, processability and heat seal property.

General Information	
Additive	Processing aid
	Anti-caking agent
	Antioxidation
Features	High strength
	Anti-caking property
	Antioxidation
	Workability, good
	Good heat sealability
Uses	Films
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
Forms	Particle
Processing Method	Film extrusion
	Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	39.2	MPa	ASTM D638
Tensile Elongation (Break)	850	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	190	µm	
Tensile Strength			ASTM D882
MD: Fracture, 190 µm	47.1	MPa	ASTM D882
TD: Fracture, 190 µm	43.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 190 µm	600	%	ASTM D882
TD: Fracture, 190 µm	800	%	ASTM D882
Dart Drop Impact (190 µm)	> 800	g	ASTM D1709B
Tensile Tear Strength			ASTM D1004

MD : 190.0 μm	137.3	kN/m	ASTM D1004
TD : 190.0 μm	147.1	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	106	°C	ASTM D1525
Peak Melting Temperature	126	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (190 μm)	25	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	
Extrusion instructions			

Blow-up Ratio: 1.5 to 2.5 Optimum Gage Range: 0.10 to 0.30 mm

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

