

HANWHA LLDPE HS1600

Linear Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LLDPE HS1600 is high strength LLDPE manufactured by Unipol process and designed for stretch wrap. LLDPE HS1600 has excellent mechanical property, stretchability, optical properties and unwinding properties.

General Information			
Additive	Antioxidation		
Features	High strength		
	Optical		
	Antioxidation		
Uses	Films		
	Stretch winding		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Film extrusion		
	cast film		

Physical	Nominal Value	Unit	Test Method
Density	0.917	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	34.3	MPa	ASTM D638
Tensile Elongation (Break)	900	%	ASTM D638

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
Tensile Strength			ASTM D882
MD: Break, 20 μm	44.1	MPa	ASTM D882
TD: Break, 20 μm	39.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 μm	750	%	ASTM D882
TD: Break, 20 μm	850	%	ASTM D882
Dart Drop Impact (20 μm)	200	g	ASTM D1709B
Tensile Tear Strength			ASTM D1004
MD : 20.0 μm	117.7	kN/m	ASTM D1004
TD : 20.0 μm	127.5	kN/m	ASTM D1004

Thermal	Nominal Value	Unit	Test Method
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Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	105	°C	ASTM D1525
Peak Melting Temperature	125	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (20.0 μm)	2.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 270	°C	
Extrusion instructions			

Optimum Gage Range: 0.015 to 0.05 mm

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