

HANWHA LLDPE HS1700

Linear Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LLDPE HS1700 is high strength LLDPE manufactured by Unipol process and designed for stretch wrap and diaper film application. LLDPE HS1600 has excellent mechanical property, stretchability, optical properties and water vapor transmittance rate.

General Information	
Additive	Processing aid
	Anti-caking agent
	Antioxidation
	slip agent
Features	High strength
	smoothness
	Optical
	Antioxidation
	Workability, good
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	0.923	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
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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