

HANWHA LLDPE 4300N

Linear Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LLDPE 4300N is manufactured by Unipol process and designed for general purpose and agricultural film . LLDPE 4300N has well balanced property of mechanical property, processability and optical property

General Information	
Additive	Antiblock Antioxidant Slip
Features	Antiblocking Antioxidant General Purpose Good Processability Opticals Slip
Uses	Agricultural Applications Film General Purpose
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
Forms	Pellets
Processing Method	Blown Film Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	21.6	MPa	ASTM D638
Tensile Elongation (Break)	900	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	Internal Method
Tensile Strength			ASTM D882
MD : Break, 30 µm	41.2	MPa	
TD : Break, 30 µm	37.3	MPa	
Tensile Elongation			ASTM D882

MD : Break, 30 μm	650	%	
TD : Break, 30 μm	750	%	
Dart Drop Impact (30 μm)	140	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 30.0 μm	117.7	kN/m	
TD : 30.0 μm	122.6	kN/m	
Blow-up Ratio	2.00 to 3.00		
Optimum Gage Range	30.0 to 100.0	μm	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	103	°C	ASTM D1525
Peak Melting Temperature	122	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 190	°C	

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