

HANWHA LDPE 5310

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LDPE 5310 is manufactured by ICI autoclave high pressure process and designed for variety of film application such as agriculture film and shrink film. LDPE 5310 has well balanced property of mechanical property and processability.

General Information	
Features	Workability, good
	No additive
Uses	Films
	Agricultural application
	Shrinkable film
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1
Forms	Particle
Processing Method	Film extrusion
	Blow 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)	0.80	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	13.7	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Tensile Strength			ASTM D882
MD: Break, 50 μm	25.5	MPa	ASTM D882
TD: Break, 50 μm	21.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 μm	400	%	ASTM D882
TD: Break, 50 μm	600	%	ASTM D882
Dart Drop Impact (50 μm)	95	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 50.0 μm	98.1	kN/m	ASTM D1004
TD : 50.0 μm	93.2	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746

Vicat Softening Temperature	92.0	°C	ASTM D1525
Melting Temperature	111	°C	
Optical	Nominal Value	Unit	Test Method
Haze (50.0 μm)	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	140 - 180	°C	
Extrusion instructions			

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.05 to 0.15 mm

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