

HANWHA LDPE 5316

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LDPE 5316 is manufactured by DOW tubular high pressure process and designed for variety of film application such as greenhouse film. LDPE 5316 has well balanced property of high clarity, mechanical property and processability.

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	smoothness Anti-caking property Antioxidation Workability, good Definition, high
Uses	Films
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	0.922	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)	15.7	MPa	ASTM D638
Tensile Elongation (Break)	800	%	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	220	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	280	%	ASTM D882
TD: Break, 50 µm	550	%	ASTM D882
Dart Drop Impact (50 µm)	100	g	ASTM D1709
Tensile Tear Strength			ASTM D1004

50.0 μm	93.2	kN/m	ASTM D1004
MD : 50.0 μm	107.9	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	110	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (60.0 μm)	8.5	%	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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