

HANWHA LDPE 5321 (Film)

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LDPE 5321 is manufactured by DOW tubular high pressure process and designed for variety of film application such as general package film. LDPE 5321 has well balanced property of high clarity, mechanical property and processability.

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	smoothness Optical Anti-caking property Antioxidation Workability, good Definition, high
Uses	Packaging 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	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.7	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Strength			ASTM D882
MD: Break, 30 µm	22.1	MPa	ASTM D882
TD: Break, 30 µm	16.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	320	%	ASTM D882

TD: Break, 30 µm	550	%	ASTM D882
Dart Drop Impact (30 µm)	80	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 30.0 µm	88.3	kN/m	ASTM D1004
TD : 30.0 µm	83.4	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	88.0	°C	ASTM D1525
Melting Temperature	109	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (30.0 µm)	6.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	140 - 170	°C	
Extrusion instructions			

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.025 to 0.1 mm

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