

HANWHA LLDPE 3224

Linear Low Density Polyethylene
Hanwha Chemical

Message:

HANWHA LLDPE 3224 is manufactured by Unipol process and designed for general purpose and agricultural film . LLDPE 3224 has well balanced property of mechanical property and processability.

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	smoothness Anti-caking property Antioxidation Workability, good General
Uses	Films Agricultural application
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	18.1	MPa	ASTM D638
Tensile Elongation (Break)	940	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Strength			ASTM D882
MD: Break, 30 µm	37.3	MPa	ASTM D882
TD: Break, 30 µm	35.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	550	%	ASTM D882
TD: Break, 30 µm	750	%	ASTM D882

Dart Drop Impact (30 μm)	90	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 30.0 μm	112.8	kN/m	ASTM D1004
TD : 30.0 μm	117.7	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	101	°C	ASTM D1525
Peak Melting Temperature	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	
Extrusion instructions			

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.03 to 0.1 mm

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