

HANWHA LLDPE 3121UV

Linear Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LLDPE 3121UV is manufactured by Spherilene process and designed for general mulch film. LLDPE 3121UV has good mechanical property, optical property and weatherability.

General Information	
Additive	Anti-caking agent Antioxidation slip agent UV stabilizer
Features	smoothness Optical Anti-caking property Antioxidation Good UV resistance Good weather resistance
Uses	Films
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	22.1	MPa	ASTM D638
Tensile Elongation (Break)	900	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	μm	
Tensile Strength			ASTM D882
MD: Break, 30 μm	42.2	MPa	ASTM D882
TD: Break, 30 μm	38.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 μm	650	%	ASTM D882
TD: Break, 30 μm	750	%	ASTM D882
Dart Drop Impact (30 μm)	130	g	ASTM D1709

Tensile Tear Strength			ASTM D1004
MD : 30.0 μm	117.7	kN/m	ASTM D1004
TD : 30.0 μm	122.6	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	103	°C	ASTM D1525
Peak Melting Temperature	123	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm)	14	%	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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