

# HANWHA LLDPE 3303

Linear Low Density Polyethylene  
Hanwha Chemical

Message:

HANWHA LLDPE 3303 is manufactured by Spherilene process and designed for general purpose film. LLDPE 3303 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
Uses	Films General
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	40.2	MPa	ASTM D882
TD: Break, 30 µm	36.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	500	%	ASTM D882
TD: Break, 30 µm	700	%	ASTM D882
Dart Drop Impact (30 µm)	100	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	105	°C	ASTM D1525
Melting Temperature	125	°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: 0.02 to 0.1 mm

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#### Recommended distributors for this material

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