

HANWHA LDPE 5318

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA LDPE 5318 is manufactured by ICI autoclave high pressure process and designed for general purpose film. LDPE 5318 has well balanced property of mechanical and optical property.

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	smoothness Optical Anti-caking property Antioxidation General
Uses	Films General
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	0.923	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)	11.8	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Strength			ASTM D882
MD: Break, 30 µm	22.6	MPa	ASTM D882
TD: Break, 30 µm	19.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	300	%	ASTM D882
TD: Break, 30 µm	550	%	ASTM D882

Dart Drop Impact (30 μm)	75	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD : 30.0 μm	93.2	kN/m	ASTM D1004
TD : 30.0 μm	88.3	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	111	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm)	7.0	%	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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