

HANWHA 3081

High Density Polyethylene

Hanwha Chemical

Message:

HANWHA HDPE 3081 is manufactured by Unipol process and designed for general purpose. HDPE 3081 has well balanced property of mechanical property and processability.

Mechanical Property

Processability

General Information			
Features	Workability, good		
	General		
Uses	General		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.060	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	24.5	MPa	ASTM D638
Tensile Elongation (Break)	770	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
Tensile Strength			ASTM D882
MD: Break, 20 μm	53.0	MPa	ASTM D882
TD: Break, 20 μm	54.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 μm	400	%	ASTM D882
TD: Break, 20 μm	540	%	ASTM D882
Dart Drop Impact (20 μm)	150	g	ASTM D1709
Tensile Tear Strength			ASTM D1004
MD	225.6	kN/m	ASTM D1004
TD	181.4	kN/m	ASTM D1004
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130	°C	ASTM D2117
Optical	Nominal Value	Unit	Test Method
Haze (20.0 μm)	84	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	

Extrusion instructions

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

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